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# Online Enquiry System for Transportation

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## 1. Project Description

### 1.1. Project Abstract

Our project named ONLINE ENQUIRY SYSTEM FOR TRANSPORTATION deals with the enquiry about transportation for buses, trains, flights. Generally we search for buses or trains or flights in different individual sites. Our system can search buses, trains, flights in single application. Users can search the details from departure to the destination in particular date. It displays the information such as cost , number of seats journey time, class, distance, transportation number and transportation name and also it displays the routes between the departure and destination.

### 1.2. Competitive Information

The objective of this application is to develop an online enquiry system for Improving Software Quality and Reliability is useful for applications developed in an organization. This system can be used for reduce problems of travelers against an application/module, and the all type of travel information to individuals and solving problems of the travelers.

### 1.3 Relationship to other applications

The existing system in does not contain any online facility to book the tickets in a single website. All they have is the applicant, where they can search individually in each particular website.

#### Problems in Existing System

- Can get the information about different means in different websites.
- Time taking for the users.
- Risk of mismanagement of the travel.
- Fewer user – Friendly.

#### Development of New System

The development of the new system contains the following activities, which try to automate the entire process keeping in view of the database integration approach.

- This project is aimed to provide convenience to the users to get the information about buses, trains and flights in detail.

- We provide all the details in easy and convenient way so that the user can understand.
- The user can take decision very soon about choosing the means of transportation and places. For senior citizens, we provide special care.
- Our project is about providing details.
- We tried to put maximum information about the means of transportation

#### 1.4 Assumptions and Dependencies

The proposed system organizes the data effectively. The online enquiry system for improving application Quality and Reliability is a web based application that can be accessed throughout the organization. It can be useful application that can be taken as reference for any kind of situation or project.

#### 1.5 Future Enhancements

We can provide a full- fledged user account and we can also give notifications for that account. Also based on this web application we can also give alert messages to the users who registered in the website.

#### 1.6 Definitions and Acronyms

SRS – Software Requirement Specifications

MMS – Meeting Scheduler System

FR – Functional Requirement

NFR –Nonfunctional requirement

JDBC – Java Database Connectivity

HTTP- Hypertext transfer Protocol

HTML- Hypertext Markup Language

## 2 Technical Description

As discussed earlier, there are certain problems with the current reservation system in the university. Sometimes the application may be lost completely without even knowing to the administrator and the people who are participating in the application due to the negligence of the either the administrator or the people working under the administrator. And there is no security for the user or applicant's information. These are the factors to motivate me to develop this project.

### 2.1 Project / Application Architecture:

The project has been developed in Model-2 architecture. Model 2 is a complex design pattern used in the design of Java Web applications which separates the display of content from the logic used to obtain

and manipulate the content. Since Model 2 drives a separation between logic and display, it is usually associated with the model–view–controller (MVC) paradigm. While the exact form of the MVC "Model" was never specified by the Model 2 design, a number of publications recommend a formalized layer to contain MVC Model code. The Java Blue Prints, for example, originally recommended using EJBs to encapsulate the MVC Model.

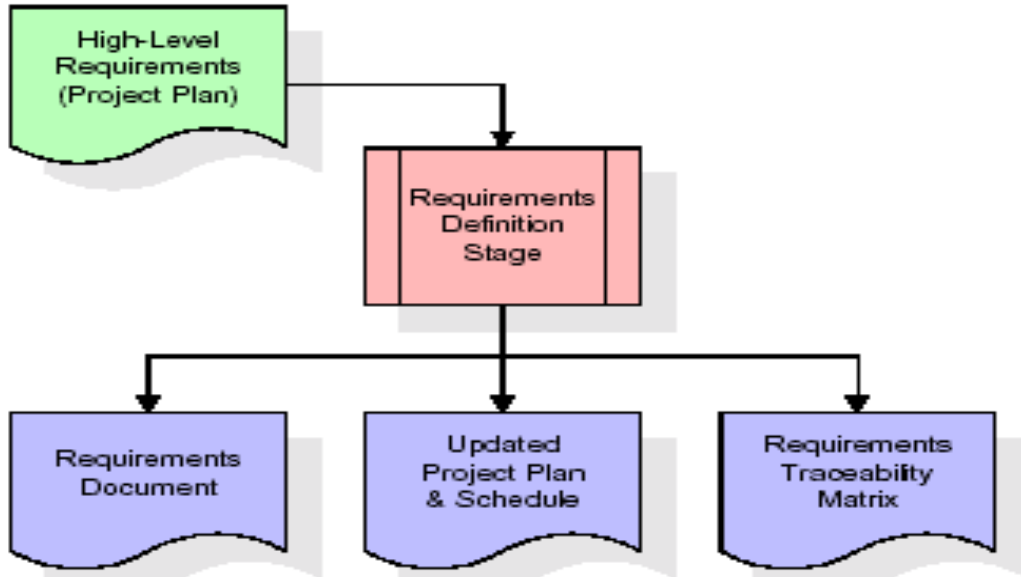
Stages in SDLC:

- Requirement Gathering
- Analysis
- Designing
- Coding
- Testing
- Maintenance

Requirements Gathering stage:

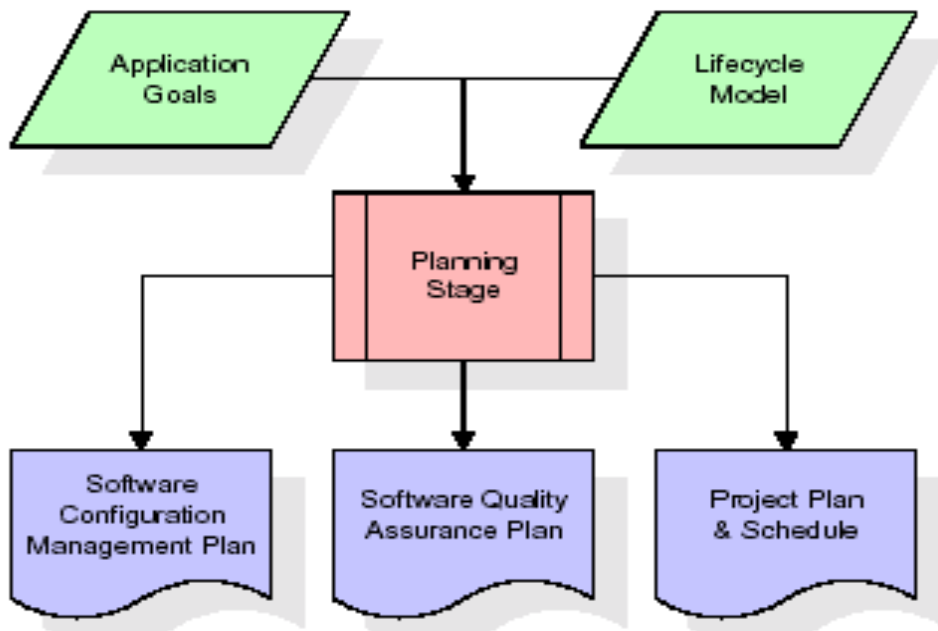
The requirements gathering process takes as its input the goals identified in the high-level requirements section of the project plan. Each goal will be refined into a set of one or more requirements. These requirements define the major functions of the intended application, define

Operational data areas and reference data areas, and define the initial data entities. Major functions include critical processes to be managed, as well as mission critical inputs, outputs and reports. A user class hierarchy is developed and associated with these major functions, data areas, and data entities. Each of these definitions is termed a Requirement. Requirements are identified by unique requirement identifiers and, at minimum, contain a requirement title and textual description.



Analysis Stage:

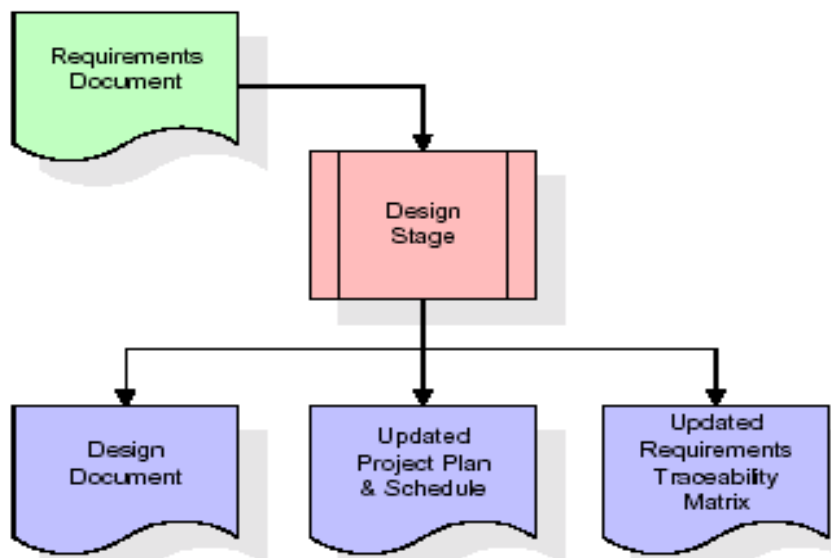
The planning stage establishes a bird's eye view of the intended software product, and uses this to establish the basic project structure, evaluate feasibility and risks associated with the project, and describe appropriate management and technical approaches.



The most critical section of the project plan is a listing of high-level product requirements, also referred to as goals. All of the software product requirements to be developed during the requirements definition stage flow from one or more of these goals. The minimum information for each goal consists of a title and textual description, although additional information and references to external documents may be included. The outputs of the project planning stage are the configuration management plan, the quality assurance plan, and the project plan and schedule, with a detailed listing of scheduled activities for the upcoming Requirements stage, and high level estimates of effort for the out stages

#### Designing Stage:

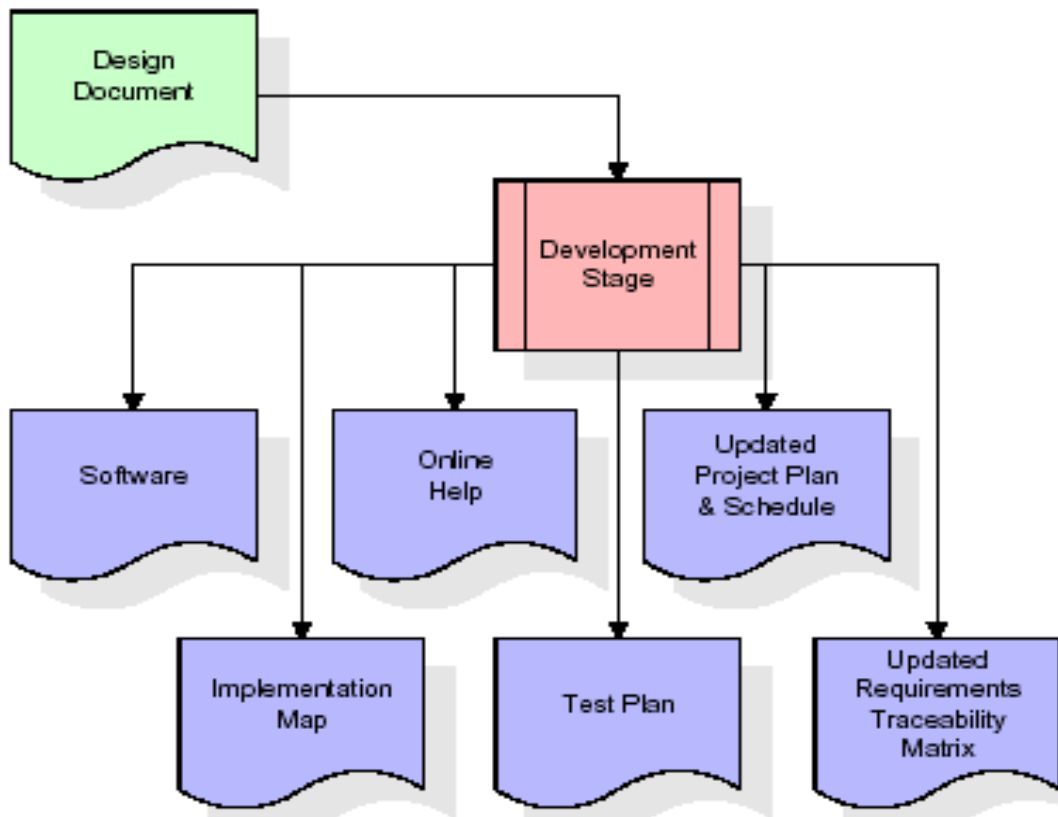
The design stage takes as its initial input the requirements identified in the approved requirements document. For each requirement, a set of one or more design elements will be produced as a result of interviews, workshops, and/or prototype efforts. Design elements describe the desired software features in detail, and generally include functional hierarchy diagrams, screen layout diagrams, tables of business rules, business process diagrams, pseudo code, and a complete entity-relationship diagram with a full data dictionary. These design elements are intended to describe the software in sufficient detail that skilled programmers may develop the software with minimal additional input.



When the design document is finalized and accepted, the RTM is updated to show that each design element is formally associated with a specific requirement. The outputs of the design stage are the design document, an updated RTM, and an updated project plan.

## Development (Coding) Stage:

The development stage takes as its primary input the design elements described in the approved design document. For each design element, a set of one or more software artifacts will be produced. Software artifacts include but are not limited to menus, dialogs, data management forms, data reporting formats, and specialized procedures and functions. Appropriate test cases will be developed for each set of functionally related software artifacts, and an online help system will be developed to guide users in their interactions with the software.

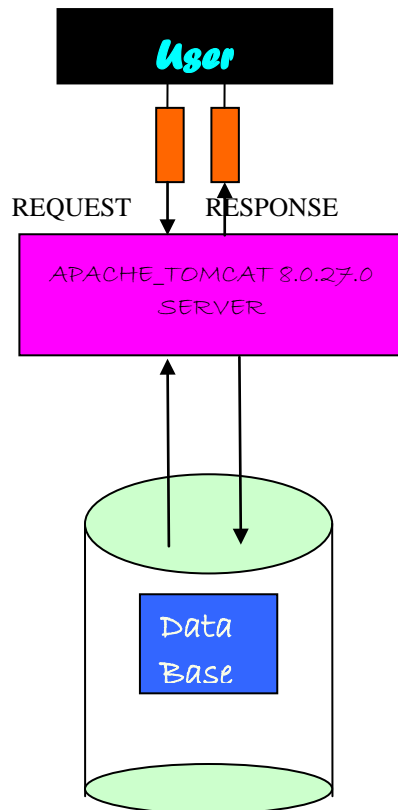


The RTM will be updated to show that each developed artifact is linked to a specific design element, and that each developed artifact has one or more corresponding test case items. At this point, the RTM is in its final configuration. The outputs of the development stage include a fully functional set of software that satisfies the requirements and design elements previously documented, an online help system that describes the operation of the software, an implementation map that identifies the primary code entry points for all major system functions, a test plan that describes the test cases to be used to validate the correctness and completeness of the software, an updated RTM, and an updated project plan.



## 2.2 Project/ Application Information flow:

Below architecture diagram represents mainly flow of requests from users to database through servers. In this scenario overall system is designed in three tiers separately using three layers called presentation layer, business logic layer and data link layer. This project was developed using 3-tier architecture.



## 2.3 Interaction with other Projects

In addition to dividing the application into three kinds of components, the Model–view–controller (MVC) design defines the interactions between them.

A controller can send commands to the model to update the model's state (e.g., editing a document). It can also send commands to its associated view to change the view's presentation of the model (e.g., by scrolling through a document).

A model notifies its associated views and controllers when there has been a change in its state. This notification allows the views to produce updated output, and the controllers to change the available set of commands. A passive implementation of MVC omits these notifications, because the application does not require them or the software platform does not support them.

#### 2.4 Interactions with other Applications

We have taken this project from an online enquiry system. We mainly took the references from various tourism companies which offer various types for destinations with all three types of transportation.

#### 2.5 Capabilities

The architecture of this project includes several individual modules. While developing the project each module has developed individually. The following figure shows the process flow of all the modules involved in the project.

#### 2.6 Risk Assessment and Management

Before Risk assessment starts it is basic that an establishment is built up for giving organized venture data, therefore, the accompanying task components were finished and characterized preceding building up this Risk Management Plan:

- Define the schedule, resources and cost for the project.
- Develop a blue print for the Project
- Develop master schedule and detailed schedules
- Estimate the budget for the project
- Identify required and available resources
- Define Risk Management Roles and Responsibilities
- Establish performance measurement metrics
- Risk management should be handled.

Project group takes part in risk assessment gatherings and individuals serve as meeting recorder and timekeeper Key partners partake in danger evaluation gatherings Project Sponsor may take part in danger appraisal gatherings.

### 3 Project Requirements

#### 3.1. Identification of Requirements:

Designing is the most important phase. The design process involves developing a conceptual view of the system, establishing system structure, identifying data streams and data stores, decomposing high level functions into sub-functions, establishing relationships , interconnection among components and developing concrete data representations.

In the context of software, design is problem solving process whose objective is to Find and describe the way to implement the functional requirements while respecting the constraints imposed by the non functional requirements and by adhering to general principles of good quality.

The goal of the design process is to produce a model or representation of the system which can be used later to build that system and use this model to build the overall system. The design process translates requirements into a representation of the software that can be assessed for quality before coding begins.

### 3.2. Performance Requirements

The design process, the quality of the evolving design is assessed with a series of formal technical reviews or design walkthroughs discussed is suggests three characteristics that serve as a guide for the evaluation of a good design.

- The design must implement all of the explicit requirements contained in the analysis model and it must accommodate all of the implicit requirements desired by the customer.
- The design must be a readable, understandable guide for those who generate code and for those who test and subsequently support the software.
- The design should provide a complete picture of the software, addressing the data, functional and behavioral domains from an implementation perspective. Each of these characteristics is actually a goal of the design process. But how is each of these goals achieved. In order to evaluate the quality of a design representation, must establish technical criteria for good design.

### 3.3. Security and Fraud Prevention

Object-oriented analysis and design (OOAD) is a software engineering approach that models a system as a group of interacting objects. Each object represents some entity of interest in the system being modeled, and is characterized by its class, its state (data elements), and its behavior. Various models can be created to show the static structure, dynamic behavior, and run-time deployment of these collaborating objects. There are a number of different notations for representing these models, such as the Unified Modeling Language (UML).

Object-oriented analysis (OOA) applies object-modeling techniques to analyze the functional requirements for a system. Object-oriented design (OOD) elaborates the analysis models to produce implementation specifications. OOA focuses on what the system does, OOD on how the system does it.

Object-oriented system is an composed of objects. The behavior of the system results from the collaboration of those objects. Collaboration between objects involves those sending messages to each other. Sending a message differs from calling a function in that when a target object receives a message, it itself decides what function to carry out to service that message. The same message may be implemented by many different functions, the one selected depending on the state of the target object.

The implementation of "message sending" varies depending on the architecture of the system being modeled, and the location of the objects being communicated with.

#### 3.4. Software and Hardware Requirements

An object-oriented system is composed of objects. The behavior of the system is achieved through collaboration between these objects, and the state of the system is the combined state of all the objects in it. Collaboration between objects involves those sending messages to each other. The exact semantics of message sending between objects varies depending on what kind of system is being modeled. In some systems, "sending a message" is the same as "invoking a method". In other systems, "sending a message" might involve sending data via a socket.

#### 3.5. HTML and JavaScript

Object-oriented analysis (OOA) looks at the problem domain, with the aim of producing a conceptual model of the information that exists in the area being analyzed. Analysis models do not consider any implementation constraints that might exist, such as concurrency, distribution, persistence, or how the system is to be built. Implementation constraints are dealt with during object-oriented design (OOD). Analysis is done before the Design.

The sources for the analysis can be a written requirements statement, a formal vision document, and interviews with stakeholders or other interested parties. A system may be divided into multiple domains, representing different business, technological, or other areas of interest, each of which are analyzed separately.

The result of object-oriented analysis is a description of what the system is functionally required to do, in the form of a conceptual model. That will typically be presented as a set of use cases, one or more UML class diagrams, and a number of interaction diagrams. It may also include some kind of user interface mock-up.

### 4. Project Design Description

Tours and travels were developed to make it easy for the people to search for the trains and bus details. This travels consists of mostly all southern cities trains and buses information. We are even providing the particular details of the trains where we can see the details and if we can register the particular details, same as to all such as for bus details, hotels. We even look for particular way of reservation. we may come across many problems such as improper accommodation ,loose of money during transaction ,transportation.

Project type:

Web Based Application.

Proposed system features The 'INTRANET' is an Enterprise Application that automates and improves procedures within organizations. It is a useful technology for delineating the steps that must be taken, the dependencies that must be enforced, and the approvals that must be obtained during the completion of projects.

It is providing very easy way for the travelers for choosing the different places, hotels and many more. it is easy to see the details for the user from the webpage. We may come across many problems such as improper accommodations, loose of money during trasaction.we are providing the packages with less of cost for the travelers. We provide all safety rules for the costumers who are going to visit our travel agency. We provide safety, comfortable journey, and fast reservation with out any delay

We are providing the facilities such as while booking such as (trains, buses, hotels) they can book through there credit or debit cards so that their will be no loose of money they will be safe of there money at any time. The majority of travel requires discretionary income.discretionary income is money left over after all monetary obligations (food rent and taxes) have been paid.

Administration processes are simplified allowing more time for management of resources. If the user is admin he can upload notifications such as

Such as the user can search the particular details of the travel and they can login to the web page. They can se the detail in the webpage such as train details, bus details, hotel details, etc.

- User can login with his id and password.
- They can view the details and they can register in to the details and they can search for more information from the webpage.
- they can view the pictures of the places and hotels which are need.
- If they have any problem they can contact the tour manager where the contact details are given in the homepage

## 5. Project Internal/external Interface Impacts and specification

### System Requirement Specification

Software Requirements Specification plays an important role in creating quality software solutions. Specification is basically a representation process. Requirements are represented in a manner that ultimately leads to successful software implementation. Requirements may be specified in a variety of ways. However there are some guidelines worth following:

- Representation format and content should be relevant to the problem
- Information contained within the specification should be nested
- Diagrams and other notational forms should be restricted in number and consistent in use.
- Representations should be revisable.

## Hardware Requirements :

PROCESSOR: PENTIUM

SPEED: 233 MHZ

MONITOR: SAMTRON

HARD DISK: 4.2 MB

RAM: 128 MB

MOUSE

KEYBOARD

## Software Requirements:

The software requirements specification is produced at the culmination of the analysis task. The function and performance allocated to the software as a part of system engineering are refined by establishing a complete information description, a detailed functional and behavioral description, and indication of performance requirements and design constraints, appropriate validation criteria and other data pertinent to requirements.

An outline of the Software Requirements Specification:

A simplified outline can be given for the framework of the specifications. This is according to the IEEE Standards.

OPERATING PLATFORM: WINDOWS 98/2000NTR OR ABOVE

DBMS: ORACLE 10G EXPRES EDITION

SOFTWARE: JDK 1.3.1\_03,

WEBSERVER: APACHE\_TOMCAT 8.0.27.0

BROWSER: INTERNET EXPLORER

FRONT END TOOL: HTML

DOCUMENTATION TOOL: MS – WORD 2000

## 6. Project Design Units Impact:

### 6.1 Functional Area/Design Unit

#### UML

The Unified Modeling Language (UML) is a standardized specification language for object modeling. UML is a general-purpose modeling language that includes a graphical notation used to create an abstract model of a system, referred to as a UML model.

Definition UML is a general purpose visual modeling language that is used to

1. specify
2. visualize

3. construct
4. document

The artifacts of the software system:

UML is a language It will provide vocabulary and rules for communications and function on conceptual and physical representation. So it is a modeling language.

UML specifying Specifying means building models which are precise, unambiguous and complete. In particular, the UML address the specification of all the important analysis, design and implementation decisions that must be made in developing and displaying a software intensive system.

UML visualization The UML includes both graphical and textual representation. It makes easy to visualize the system and for better understanding.

UML constructing UML models can be directly connected to a variety of programming languages and it is sufficiently expressive and free from any ambiguity to permit the direct execution of models.

UML documenting UML provides variety of documents in addition to raw executable codes.

The system is designed using on UML. The UML modeling and design is a new way of thinking about problems using models organized around real world concepts. UML is a standard language for specifying, visualizing, constructing, and documenting the artifacts of software system, as well as for business modeling and other non-software systems.

The UML is a very important part of developing objects oriented software and the software development process. The UML uses mostly graphical notations to express the design of software projects. Using the UML helps project teams communicate, explore potential designs, and validate the architectural design of the software.

Reasons to model

- To communicate the desired structure and behavior of the system
- To visualize and control the system's architecture.
- To better understand the system and expose opportunities for specification and reuse
- To manage risk

Uses of uml:

The UML is intended primarily for software intensive systems. It has been used effectively for such domain as Enterprise information system, banking and financial services, telecommunications, transportation, defense/aerospace, retails, medical, electronics, scientific fields, distributed wed

UML is the industry standard "language" for describing, visualizing, and documenting object-oriented systems. UML is a collection of a variety of diagrams for differing purposes. Each type of diagram models a particular aspect of object-oriented design in an easy to understand, visual manner.

The UML standard specifies exactly how the diagrams are to be drawn and what each component in the diagram means. UML is not dependent on any particular programming language, instead it focuses on the fundamental concepts and ideas that model a system. Using UML enables anyone familiar with its specifications to instantly read and understand diagrams drawn by other people. There are UML diagrams for modeling static class relationships, dynamic temporal interactions between objects, the usages of objects, the particulars of an implementation, and the state transitions of systems.

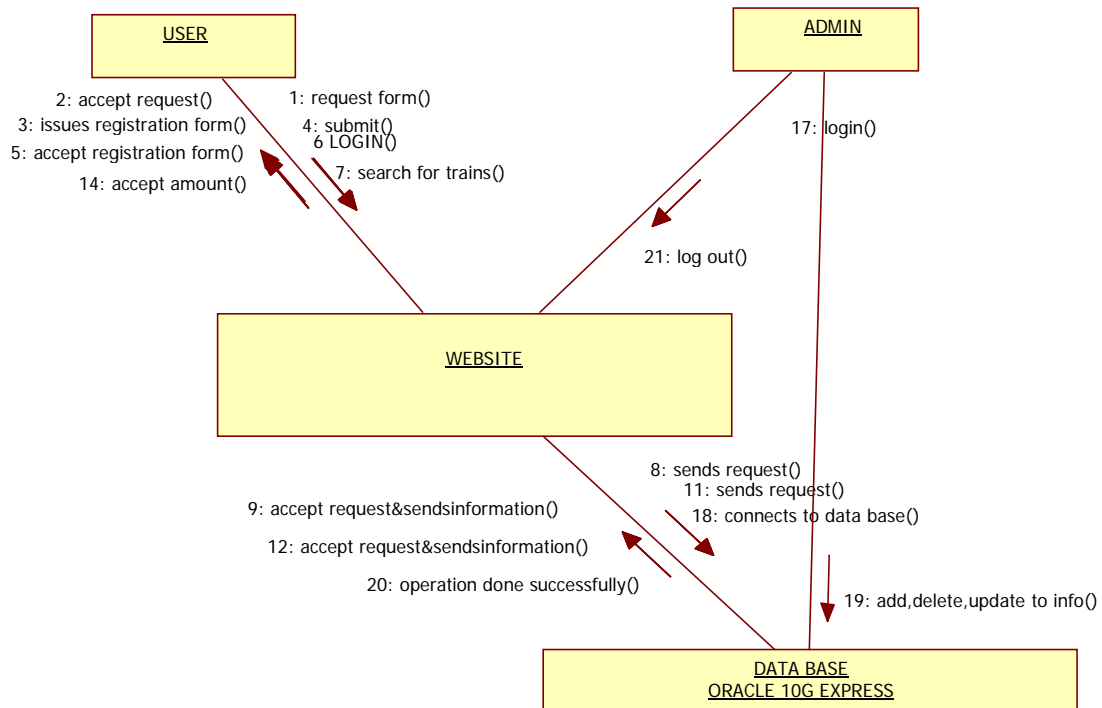
UML diagram consists of the following features

- Entities: These may be classes, objects, users or systems behaviors.
- Relationship: Lines that model the relationships between entities in the system.
- Generalization: A solid line with an arrow that points to a higher abstraction of the present item.
- Association: A solid line that represents that one entity uses another entity as part of its behavior.
- Dependency: A dotted line with an arrowhead that shows one entity depends on the behavior of another entity.

Types of UML Diagrams UML defines nine types of Diagrams in which they are divided into two categories. They are Static diagrams and Dynamic diagrams.

1. Class diagram
2. Object diagram
3. Use case diagram
4. Sequence diagram
5. Collaboration diagram
6. State chart diagram
7. Activity diagram
8. Component diagram
9. Deployment diagram





### 1. Class Diagram:

A Class Diagram shows a set of Classes, interfaces, Collaborations and their relationships. Class Diagram models class structure and contents using design elements such as classes, packages and objects. It also displays relationships such as containment, inheritance, associations and others.

### 2. Object Diagram:

An Object Diagram shows a set of Objects and their relationships.

### 3. Use case diagram:

A use case diagram shows the relationship among actors and use cases within a system. Use case diagrams show elements from the use case model. The use case model represents functionality of a system or a class as manifested to external actors with the system.

A use case diagram is a graph of actors, a set of use cases enclosed by a system boundary, communication (participation) associations between the actors and the use cases, and generalizations among the use cases.

### 4. Sequence diagram:

A sequence diagram shows an interaction arranged in time sequence. In particular, it shows the objects participating in the interaction by their “lifelines” and the messages that they exchange arranged in time

sequence. It does not show the associations among the objects. A sequence diagram represents an Interaction, which is a set of messages exchanged among objects within collaboration to effect a desired operation or result.

#### 5. Collaboration Diagram:

A Collaboration Diagram is an interaction Diagram that emphasizes the structural organization of the objects that send and receive messages. It shows a set of objects, links among those objects and messages sent & received by those objects.

#### 6. State Chart Diagram:

A State Chart Diagram shows a state machine, consisting of states, transitions, events and activities. State Diagram emphasizes the event-ordered behavior of objects which is especially useful in modeling reactive systems.

#### 7. Activity diagram:

An Activity diagram is a dynamic diagram that shows the activity and the event that causes the object to be in the particular state.

Activity diagrams show the flow of activities through the system. Diagrams are read from top to bottom and have branches and forks to describe conditions and parallel activities. A fork is used when multiple activities are occurring at the same time. The branch describes what activities will take place based on a set of conditions. All branches at some point are followed by a merge to indicate the end of the conditional behavior started by that branch. After the merge all of the parallel activities must be combined by a join before transitioning into the final activity state.

#### 8. Component Diagram:

A Component Diagram shows a set of Components and their relationships. Component diagram are related to class diagram.

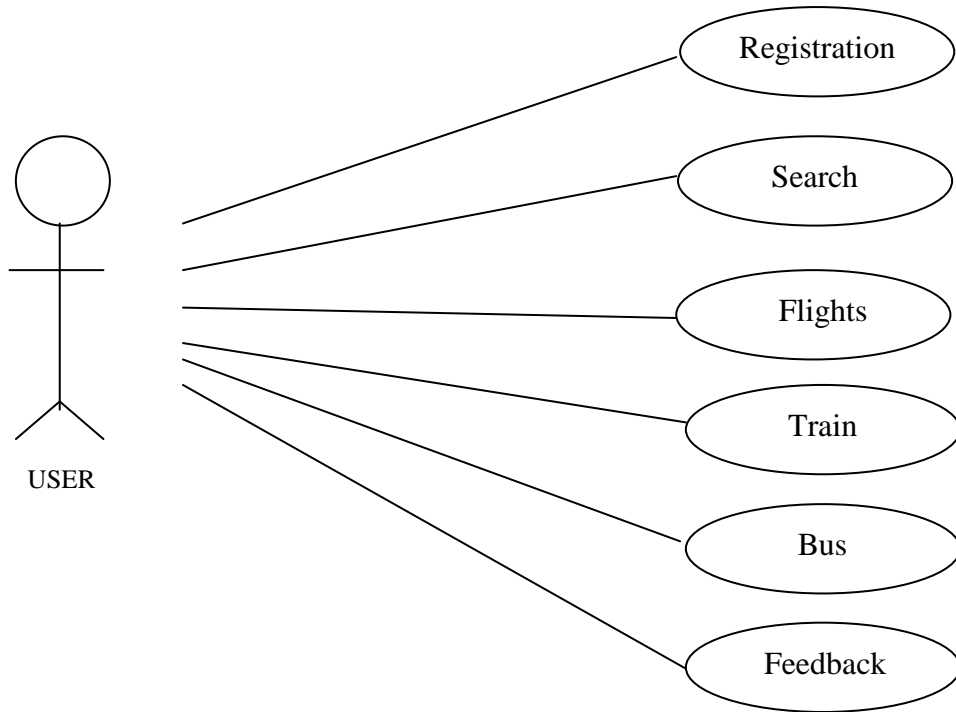
#### 9. Deployment Diagram:

A Deployment diagram shows a set of nodes and their relationship. Deployment diagram are related to component diagram.

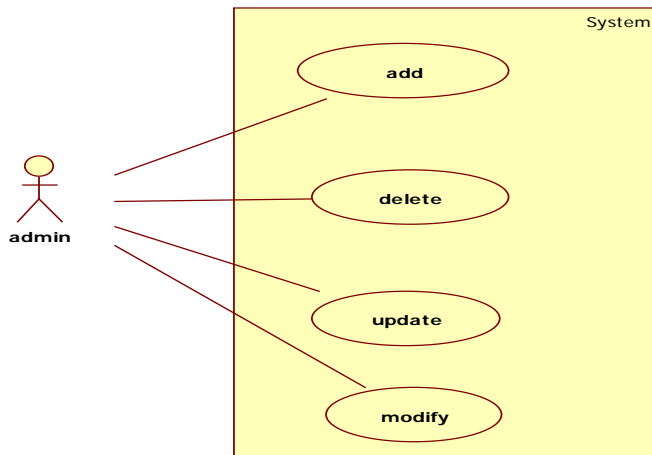
#### 6.1.1 Functional Overview

#### USE CASE DOCUMENTATION

USE CASE DIAGRAM-1



USE CASE DIAGRAM-2



### Functional Description

#### Functional Requirements

Functional Requirements describe the features, behavior, business rules and general functionality that the proposed system must support.

#### FRF01

If the user is admin he can upload notifications, faculty and student profiles, students marks, books etc. can also view the profiles, and check the inbox.

#### FRF02

If the user is faculty he can upload notifications, student details, students marks, books etc. can also view the profile of his and the students, timetable and check the inbox. The main role of faculty is to answer the queries posted by the students.

#### FRF03

If the user is student he can view his profile and can edit it. He can view the inbox and notifications. The student can send the query he wants, to any faculty member. He can send messages to his friends.

#### Non Functional Requirements

- Usability
- Reliability
- Performance
- Supportability
- Security

**Usability** The system is designed for the organizations who want to provide security for their information.

**Reliability** The system is said to be reliable because the entire system was built using java which is most robust. Reliability refers to the standards of the system.

**Performance** The system is highly functional and good in performance. The system must use the minimal set of variables and minimal usage of the control structures to increase the performance of the system dynamically.

**Supportability** The system is supportable with different versions of Windows platforms.

**Security:** The total system is intended to be developed for the security purposes.

#### 6.1.2. Impacts:

By following the above processes we can get to know the complete flow of the processes. By watching the activity diagram we can get to know everything in the project. If there is any issue then we can easily find out by following the UML and Activity diagrams.

### 6.2 Functional Area/Design Unit B

#### 6.2.1 Functional Overview

#### 6.2.2 Feasibility Report

Preliminary investigation examines project feasibility; the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All systems are feasible

if they are given unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation:

- Technical Feasibility
- Operation Feasibility
- Economic Feasibility

#### Technical Feasibility

The technical issue usually raised during the feasibility stage of the investigation includes the following:

- Does the necessary technology exist to do what is suggested?
- Do the proposed equipment's have the technical capacity to hold the data required to use the new system?
- Will the proposed system provide adequate response to inquiries, regardless of the number or location of users?
- Can the system be upgraded if developed?

Are there technical guarantees of accuracy, reliability, ease of access and data security?

#### Operational Feasibility

##### User-friendly

Customer will use the forms for their various transactions i.e. for adding new routes, viewing the routes details. Also the Customer wants the reports to view the various transactions based on the constraints. These forms and reports are generated as user-friendly to the Client.

##### Reliability

The package will pick-up current transactions on line. Regarding the old transactions, User will enter them in to the system.

##### Security

The web server and database server should be protected from hacking, virus etc.

##### Portability

The application will be developed using standard open source software (Except Oracle) like Java, tomcat web server, Internet Explorer Browser etc. these software will work both on Windows and Linux o/s. Hence portability problems will not arise.

##### Availability

This software will be available always.

##### Maintainability

The system called the ewheelz uses the 2-tier architecture. The 1st tier is the GUI, which is said to be front-end and the 2nd tier is the database, which uses MYSQL, which is the back-end.

The front-end can be run on different systems (clients). The database will be running at the server. Users access these forms by using the user-ids and the passwords.

##### Economic Feasibility

The computerized system takes care of the present existing system's data flow and procedures completely and should generate all the reports of the manual system besides a host of other management reports. It should be built as a web based application with separate web server and database server. This is required as the activities are spread throughout the organization customer wants a centralized database. Further some of the linked transactions take place in different locations Open source software like TOMCAT, JAVA, Mysql and Linux is used to minimize the cost for the Customer.

### 6.2.3 System Testing and Implementation:

In order to make sure that the system does not have errors, the different levels of testing strategies that are applied at differing phases of software development are:

#### Unit Testing:

In this strategy some test cases are generated as input conditions that fully execute all functional requirements for the program. This testing has been used to find errors in the following categories:

- Incorrect or missing functions
- Interface errors
- Errors in data structure or external database access
- Performance errors
- Initialization and termination errors.

In this testing only the output is checked for correctness. The logical flow of the data is not checked.

#### White Box testing:

In this the test cases are generated on the logic of each module by drawing flow graphs of that module and logical decisions are tested on all the cases. It has been used to generate the test cases in the following cases:

- Guarantee that all independent paths have been executed.
- Execute all logical decisions on their true and false Sides.
- Execute all loops at their boundaries and within their operational bounds

#### Integrating Testing:

Integration testing ensures that software and subsystems work together as a whole. It tests the interface of all the modules to make sure that the modules behave properly when integrated together.

#### System Testing:

Involve in-house testing of the entire system before delivery to the user. Its aim is to satisfy the user the system meets all requirements of the client's specifications.

#### Acceptance Testing:

It is a pre-delivery testing in which entire system is tested at client's site on real world data to find errors.

## Test Approach:

Testing can be done in two ways:

Bottom up approach

Top down approach

### Bottom up Approach:

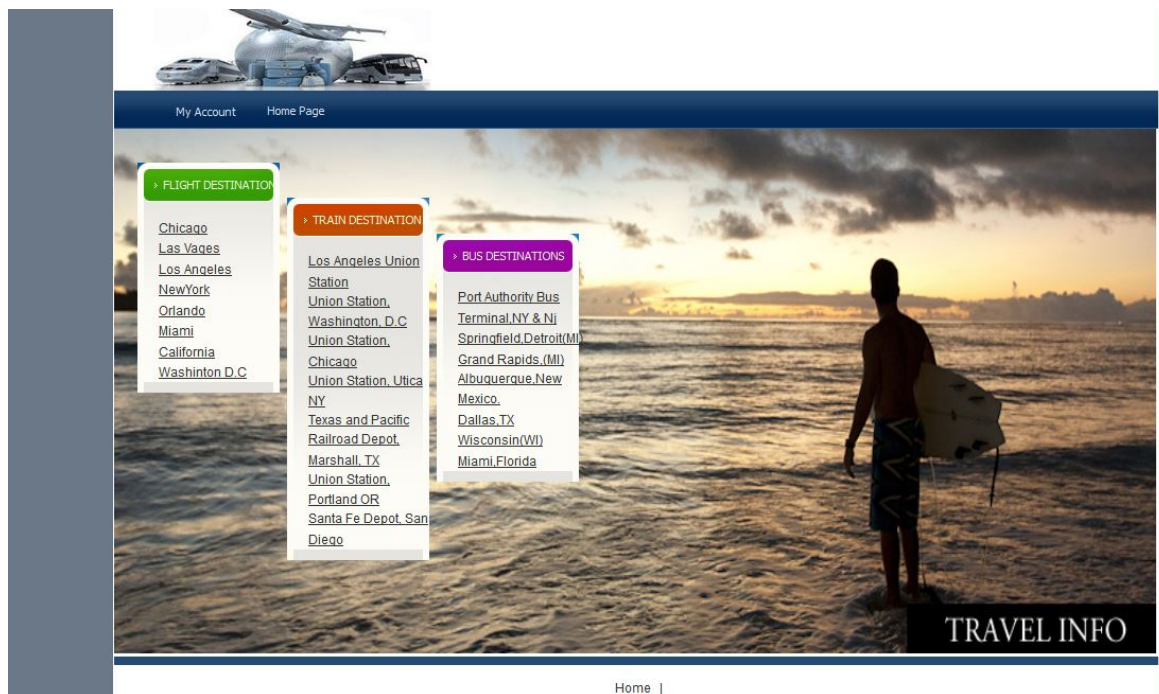
Testing can be performed starting from smallest and lowest level modules and proceeding one at a time. For each module in bottom up testing a short program executes the module and provides the needed data so that the module is asked to perform the way it will when embedded within the larger system. When bottom level modules are tested attention turns to those on the next level that use the lower level ones they are tested individually and then linked with the previously examined lower level modules.

### Top down approach:

This type of testing starts from upper level modules. Since the detailed activities usually performed in the lower level routines are not provided stubs are written. A stub is a module shell called by upper level module and that when reached properly will return a message to the calling module indicating that proper interaction occurred. No attempt is made to verify the correctness of the lower level module.

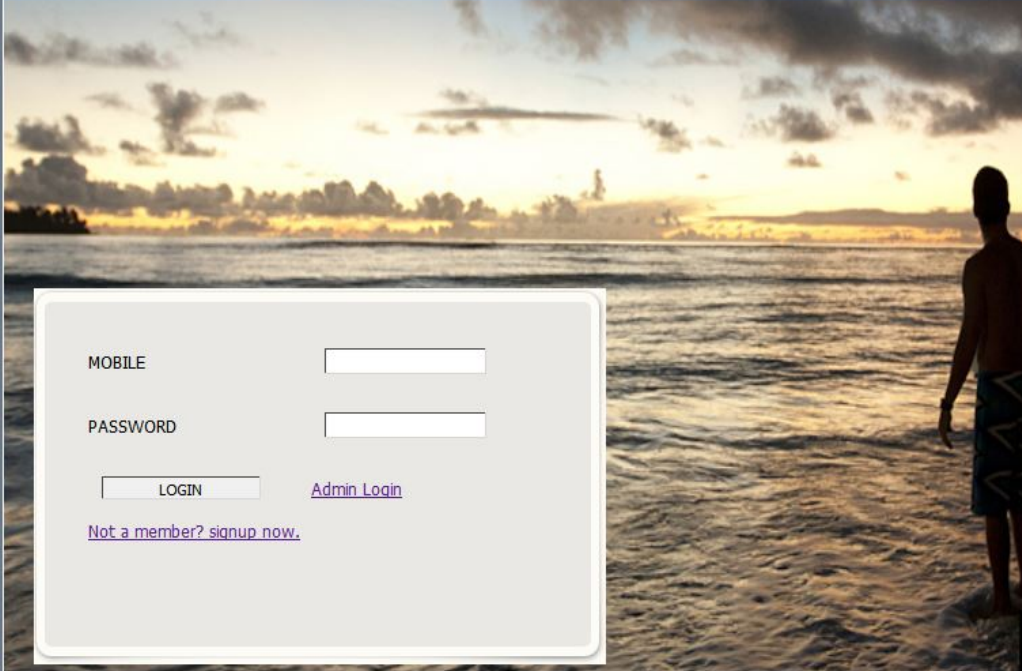
## 6.3 OUTPUT SCREENS:

### HOME SCREEN:



LOGIN PAGE

## Membership Page



MOBILE

PASSWORD

[Admin Login](#)

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WELCOME PAGE

localhost:8084/tour01/home.jsp

POPULAR DESTINATIONS FLIGHT DETAILS TRAIN DETAILS BUS DETAILS MY FAVOURITES CONTACT US FEEDBACK LOGOUT

welcome 6163235776





## TRAIN DETAILS PAGE

Tran Id	Train name	Train No.	Fare	Departure Time	Arrival Time	From	To	Departure	Arrival	Favorites
1	"BANGALORE RJOHNI"	"2430"	"1145"	"6:50PM"	"6:40AM"	"SECUNDERABAD JN(SC)"	"BANGALORE JN(SBC)"	HYDERABAD	BANGALORE	<a href="#">Add to favourite</a>
17	"BANGALORE EXPRESS"	"2785"	"278"	"7:05PM"	"6:25AM"	"KACHEGUDA(KCG)"	"BANGALORE CYJN(SBC)"	HYDERABAD	BANGALORE	<a href="#">Add to favourite</a>
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### 7. Open Issues

- Technical – Relating to a technological problem in the project.
- Business process – Relating to the project's design.
- Change management – Relating to business, customer, or environmental changes.
- Resource – Relating to equipment, material, or people problems.
- Third party – Relating to issues with vendors, suppliers, or another outside party.

### 8. ACKNOWLEDGEMENTS

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