Digitized Engineering Notebook

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ABSTRACT

In this modern world everything is digitalized i.e a raw data can be transformed into digital where someone can use data through computer. Digitized Engineering book is an online application that is a replica of hardcopy of Engineering book. Digital Engineering book will allow the student to access their data through text, pictures and graphs. Through this application students can check their progress of projects. Using digitalized engineering book student can create a new files and can view other student progress too.

In this application we will have a welcome page (main page) with navigation list on it. We will have some more features like admin console, options to create and view projects, log index etc.

This Web application is one stop solution for project management. It will allow users to create project and add members to project. The project members can enter their project related content (documents/videos/images) through this application. The users can enter their status and observations through this application everyday which helps in tracking the project by other members without any communication gap. The users can discuss their queries or project related things using discussion board provided in this application.

Each user will have personal dashboard which will show all his projects and their status. The user can search any project in the website and can read the content.

The Admin will track the user registrations and content present in the web application. The admin has every right to delete the content.
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1 PROJECT DESCRIPTION:

The objective of this project is to develop an online project portal to promote and offer technologies to the perspective students. This portal acts as a marketing tool and should be used to monitor inquiries and registrations for students. This Portal lists all the projects available and its course details, it also includes the schedule of the courses and stores the information related to inquiries about the projects.

Modules:

Team leader: Team leader has an authentication to modify the project, add project and to add team members.

Team member: Digitized engineering note book provides authentication and authorization to students. This portal offers modify projects, course schedules to other students and they can go through their project.

Administrator: Administrator is a super user in the system. Admin can do anything on the site like setting up the front (home) page, changing the look of site, adding users, adding courses and providing permission to other users.

1.1 Competitive Information

In the current market, there might be a lot of portals available to access engineering note book which are ready to use. We can consider those portals are our competitors but this portal has some unique feature like adding projects, adding users and tracking of project status which brings uniqueness to this portal. This portal is more users friendly and its design architecture also quite different than other portals.

1.2 Relationship to Other Applications/Projects

This project is related to students who are pursuing their bachelors/masters degree. This portal is used to both team members and viewers

1.3 Assumptions and Dependencies

We can assume that this portal will increase the credibility of a student by promoting their projects. It helps students to enroll into multiple projects and update them with the latest technologies. This is more user’s friendly, even students can enter into portal and register with the permission of admin. we do not have any dependencies.
1.4 Future Enhancements
This Portal is designed for students in order to overcome some problems. In the future, we can modify the portal and make it according their current situation. This portal has the capability to enable chat rooms for team members, admin and team leader which act as an internal messaging system.

1.5 Definitions and Acronyms
ASPsNET   Active server pages
SQL       Structure Query Language
MVC       Model View Controller

2 Project Technical Description
Development Environment:

- Operating Systems: Windows 7/8/10
- Web Server: Internet information server 7.0 (IIS)
- Visual Studio ASP.NET frame work
- Languages: Java Script, HTML and CSS.
- Database: SQL server management studio
- Client Browser: Chrome/Mozilla Firefox.
2.1 Application Architecture

2.2 Application Information flows

This Application provides end-to-end functionalities of digital notebook. This project was developed to help students access their projects and view other projects so that they gain knowleges from different sources. This project have 0 modules i.e. user and administrators. Administrators can access all functionalities i.e end to end from application whereas user will have some constrains.
HOME PAGE

This is the default homepage of our website, which contains modules:

- Login
- SignUp
- ContactUS
- AboutUs

*Digitized Engineering NoteBook*

About us:
In this century, most everything is digital. In a raw data can be transformed into digital where someone can use data through computer. Digitized Engineering book is a virtual application that is a replica of handwriting or engineering books. Digitized Engineering book will allow the student to access their data through text, pictures, and graphics. Through this application, students can check their progress of projects. Using digitized engineering book, students can create a new file and can store other student progress too.
This is the page where users register with our blog.
It has following textboxes:

- Student Name
- Email
- Student ID
- Password
Contact us pages will have a contact information of registered owner

Digitized Engineering NoteBook

Contact us
Ouvermo state University,
University park ll,
Admin@gissi.edu, 781 354 8544

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Digitized Engineering NoteBook

About us
In this climate world everything is digitized in a raw data can be transformed into digital where someone can use data through computer. Digitized Engineering book is a entire application that is a replica of histogy of engineering books Digitized Engineering book will allow the student to access their data through text, pictures and graphs. Through this application students can check their progress of projects. Using digitized engineering book student can create a new files and can view other student progress too.

All Rights Reserved
Login page. Once user register with website user can login with studentID and can access user console.

**User profile**
Once user logged in to system, he/she can view and access all the document but cannot modify that documents.
If user add a project then he will be the Team Leader of that project and can add members to this project.
All Team members and TeamLeader can modify their project and can add multimedia objects
This the page creates after Team Leader creates a project and can add a registered members to it. After adding users only user can access their project.

**Discussion Board**

All registered users can discuss their queries and post their question.
Admin Console

This is administration console where admin can access all details of the registered users

This console have a following modules

- View Registration
- Mangae project
- Mange discussion board
- Mange content
Manage module

This is the module where admin can delete, update users project
Server name “MONY” we had used localhost for this project and used windows authentication
2.3 Interactions with other Projects (if Any)

This project is independent it doesn’t depend with other projects.

2.4 Interactions with other Applications

This application does interacts with users and registered users. Registered users can edit their user interface.

2.5 Capabilities

All the information like user profile data, user credentials, add project, manage project are saved into backend database. The data is dynamically retrieved and updated based on the user activities. The site accepts only the registered user. The registered users can able to view and manage their projects and can access their projects.

2.6 Risk Assessment and Management

The main risk of the project is to communication with the stakeholders to gather the requirements.

- Schedule risk: Project schedule may skip and release may bleed.
- Budget risk: Inappropriate budget estimation.
- Operational Risks: Insufficient resources
- No proper training.
3  Project Requirements

3.1  Identification of Requirements

is the website URL for this project which redirects to display homepage and it consists related video and News feeds. Mainly, two types of login opportunities i.e. new user and existing user, admin/supervisor are key users to update website maintenance. It is developed by following requirements:

3.2  Operations, Administration, Maintenance and Provisioning (OAM&P)

OAMP are the several actions, methods and specifications associated with operating, administrating, controlling, and managing this project.

- Operations: This explains the everyday actions of the design similar to everyday conference with in the group, escalations in work, connectivity and changes in group via electronic mails and conferences. Including check checklist, tickets methods, on call details for job.
- Administration: In management system, it explains actions similar to typical passwords, accessories and equipment connection. Timesheets, conferences, schedule and customer support.
- Maintenance: This consists of components and also design modifications in our project. Maintenance are possibly routine or maybe unscheduled. Maintaining of communication equipment and software system just like updating or modifying them to several types. Fixing problems in task and associated with excision of management facilities as a protection policy.
- Provisioning: Placing newer system, new support, setting up new equipment will come under provisioning of the job.

3.3  Security and Fraud Prevention

Security is the major issue for any project. In this Project, team members/Administrator can be provided by username and password for entering into the Application. Users can enter into website by comparing the end user name and password of Administrator and Parents log on Webpages respectively. All the passwords are encrypted in ‘Message Digest algorithm 5’ in the database. It fetches info from database as soon as user attempts to sign on. Whenever user forgets password and attempt to sign on, it redirects to error web page.
3.4 Release and Transition Plan

Time Management:

Project Start Date: 01/31/2017

- First seminar presentation: 02/05/2017
  Particulars on abstract and even Specifications are highlighted
- Second seminar: 03/06/2017
  Suggestions of design and developments of project are discussed
- Final seminar: 04/26/2017
  Concluding execution and project release is planned on this day

4 Project Design Description:

This Application was designed based on the following ER diagram, Use case diagram, UML diagram:

**ER Diagram:**

The admin has all the privileges to manage the site, right from the user management to cancelling the enrolled courses. Where the parent’s privileges are limited to register, manage and view newly added courses.
Use Case Diagram:

Admin user will have all the privileges within the sales portal. Once admin logs into the portal, admin can be able to manage the Inquires about the courses, offering listed in the portal, manage promotions.
UML Diagram:
5 Design Units Impacts

Any future changes in requirements for this project doesn’t affect the current architecture and functionality.
5.1.1 Functional Area

Below are the functional areas which are handled by our project team:

- Scope of the project
- Team Communication
- Quality of the project
- Project Deliverables
- Timelines of the project

5.1.2 Requirements

The following Important Functional Areas are covered during our project:

- Login Functionality
- Administrative permissions
- Adding or registering multiple projects

6 Open Issues

All the Open Issues were resolved.

7 Acknowledgements

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8References

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