Software Requirements Specifications

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1.   Introduction

1.1   Purpose

The main purpose of this project is to provide faculty and students a software which helps faculty to upload the information of research on particular fields and upload the status of progress of that research and can keep track of it. Students can see faculties working on their respective fields and can approach them for their project requirements, any help regarding that research, to gain knowledge about that research etc..

1.2   Intended Audience and Reading Suggestions

The intended audiences for this document are
- *Faculties*
- *Students*
- *University higher authorities*
- *developers*

The above audiences can review on this, authorities keep an eye on the track of faculty, stakeholders, also can use this for user manual.

1.3   Project Scope

Basically this project is for the faculties to upload their research work on their portal, and update the progress of their research, which reduces paperwork for progress, also there is no need of conducting multiple meetings by the authorities to know the progress of the research, as they can simply see by themselves in this software.
Also students can approach directly to know about the research without the third person help which overcomes time consuming. This might help them for their projects, knowledge etc..

2.   Overall Description

2.1   Product Perspective

This project contains two different portals. One for the students and other for the faculties.
The faculty portal is secured with the login ID and a password. Every faculty can update the status of their research like the research in particular files is completed or still in progress. If the research is completed, he can upload all the details of the research paper and the publications. If the research is in progress the faculty can upload the research documents required for his use.
The research details of the faculty include the employee name, employee Id, their completed

research. The faculty can also add a new project.

The student's portal is the access that is made available for the students to get the research details of the faculty available in the college according to their interest. The students can only view the completed research details of the faculty. And can approach the faculty accordingly.

2.2 Product Functions

Student	The Student shall be able to view the research details of a particular employee along with their personal details.
Employee/Faculty	The Employee SHALL be able to showcase his/her research progress. He can update the personal details and research details whenever required.
Administrator	The Administrator SHALL contain a unique ID to maintain the database.

2.3 User Constraints and Characteristics

Constraints

Multiple login	Multiple users cannot login at the same time
Inactivity	The system automatically logs out when there is inactivity for a particular amount of time.
Uniqueness	Every employee should have a unique employee ID
Password	The password set should be a minimum of 6 characters including capitals, numbers and special characters.

Characteristics:-

Student	The Student shall be able to view the research details of a particular employee along with their personal details.
Employee/Faculty	The Employee SHALL be able to showcase his/her research progress. He can update the personal details and research details whenever required.

Administrator	The Administrator SHALL contain a unique ID to maintain the database.

2.4   Operating Environment

Operating System : Windows or Linux or Mac
Programming language: HTML, CSS, PHP,sql,javascript
IDE :VS-code

2.5   User Documentation

This software will include a user manual, which contains the overview of the software, complete configuration, extra technical details that are used for this project(back-end).

3.   External Interface Requirements

3.1   User Interfaces.

Employee login:*When an employee enters his/ her unique employee ID, along with the password, it processes their personal account.*

Employee signup:*It is helpful the new users who aren't existing in this management system.*
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Add new research:*Helps every employee to maintain the research work up-to-date.*

Edit/ update the research progress:*It helps to change according to the employee state of mind.*

Download the research papers:*Interested students or the other employees can search accordingly by the employee id and then download the research paper when the status of the research is completed.*

4.   System Features

The different modules present in this system are given below:

4.1   Login System Module

4.1.1   Description and Priority

The login system consists of two parts. The first one is "signing page" in which the user creates his username and password for his account and these details are stored in the database. Then comes the login page. Here the user enters his username and password which he created in the signup process. And if this data matches with the data present in the

database, then the user is successfully logged in.

4.1.2   Stimulus/Response Sequences

Login	*The system verifies the input details of the user and if the entered details are correct it proceeds for further processing.*
Sign up	*The system allows a new user to create new login.*

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4.2   Database Module

4.2.1   Description and Priority

The Database acts as the backend of the website which the normal users of the website can't access. It can only be accessed by admin or webpage maintainer. The database stores the data of all the users and all the products and details of the transactions.

4.2.2   Stimulus/Response Sequences

Entering of new research details	*The system creates a new row to the research database and stores the details.*
Updating the research details	*The system stores the updated details or the deleted details to the database.*

5.   Other Non-functional Requirements

Security – *it is important to specify the level of security that should be met such*

Accessibility – *ensuring that the platform meets the basic accessibility standards throughout*

Privacy – *meeting basic requirements for GDPR*

Documentation and Usability – *ensuring that the platform is sufficiently documented and easy to understand with minimal or no training*

Extensibility – *ensuring that the platform is extended in such a way to make future development feasible*

Data integrity and retention – *defining how long data should be stored and reviewable*

Testing – *defining how unit testing will be built into the solution*

Compatibility – *ensuring that the platform can be easily integrated with 3rd party systems*

Infrastructure – *defining the performance thresholds (CPU and memory usage)*

5.1 Appendix A : Glossary

In the above SRS document, Both the terms Employee/Faculty and Students/users means the same.
Employees have the privilege to upload their personal research where as students just get the chance to refer them.

5.2 Appendix C : To be Determined

No need for any TBD list for this SRS. All the necessary information is given above.