**Software Requirements Specification**

**for**

**Online Student Forum Discussion**

**Version 1.0 approved**

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**8-11-22**

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**Revision History**

| **Name** | **Date** | **Reason For Changes** | **Version** |
| --- | --- | --- | --- |
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# **Introduction**

## **Purpose**

The purpose of this document is to present a detailed description of Online Student Forum Discussion web app. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system.

## **Document Conventions**

*<Describe any standards or typographical conventions that were followed when writing this SRS, such as fonts or highlighting that have special significance. For example, state whether priorities for higher-level requirements are assumed to be inherited by detailed requirements, or whether every requirement statement is to have its own priority.>*

## **Intended Audience and Reading Suggetions**

This project, which is only permitted on college property, is a web app of Online student forum discussion. This has been put into practise with the help of lecturers from colleges. The Student and faculties can both benefit from this project.

## **Product Scope**

The goal of this project is to fulfil students' goals. Through this initiative, an effort has been made to complete all tasks quickly and easily. All of the students that are enrolled in this programme will benefit. The goal of this project is to create an online form for student group discussions. It's a web-based application. Any student may offer subjects for questions and may also respond to questions from other students. It will establish a forum for online discussion of doubts, which would be highly beneficial for pupils. Since kids may access it at any time and from any location, it will cut down on the time they need to ask professors for clarification on their questions. Students are able to submit questions and invite others to discussions. This is helpful for any educational institution, including schools and colleges. It offers the ability to share resources and upload articles that other enrolled students can read.

## **References**

* <https://www.ibm.com/docs/en/zos-basic-skills?topic=zos-what-is-database-management-system#:~:text=A%20database%20management%20system%20>
* <https://getbootstrap.com/>
* <https://www.w3schools.com/where_to_start.asp>
* <https://www.w3schools.com/html/>
* <https://youtu.be/bMknfKXIFA8>

# **Overall Descripton**

## **Product Perspective**

This project has been developed to meet aspirations of students. An attempt has been made through this project to do all all work easily and fast. This project will be beneficial to all the Students who are are currently studying This project aims to develop online form for the group discussion for student. This is a web-based app. Any student can post the doubts topics and also will be able to reply for the other students doubts. It will create an online doubt discussion environment which will be very helpful for students. This will reduce time they require to get their doubts clarified from teachers as they can access it any time and anywhere. The students can invite others for Discussion and submit query. This is useful for school, college and any educational institute. It provides facility to share the resource and post articles that can be viewed by other registered students.

## **Product Functions**

Following are product function:

• Registration

• Category

• Discover

• Articles

• Post Question

• Answer

• Upvote

• Like

• Dislike

## **User Classes and Characteristics**

* **Student:** They will have permission to post questions and post answers to other query.
* **Faculties:** This class will be able to post answer and notices in the discussion forum.Also will have privilege to modify any post.
* **Admin:** This class will be able to manage profilesof Students and faculties.

## **Operating Environment**

Can be used on all Operating System such as Windows, MacOS,etc

## **Assumptions and Dependencies**

Device that can access web is required with active internet connection.

# **External Interface Requirements**

## **User Interfaces**

The project contains seven main modules.

• Category

• Post Question

• Registration

• Answer

• Discover

• Articles

• Search

**Category Module:**

This module is the main module, by selecting the category user can post their questions easily. They can retrieve the answers for their questions from the different users.

**Post Question Module:**

This module is mainly for the registered users. As the Administrator has to know who has posted the questions the user is registered here. These registered users alone can post their question in detailed manner.

**Registration Module:**

This Module helps to give the detailed information about the newly entered user.

**Answer Module:**

Each and every posted question will get the exact answer from the Discussion Forum team and also they can get a lot of answers from the different user.

**Discover Module**:

Users can answer the questions which are posted in this site. Both registered and non registered user is benefited over this module. They can also view the answers posted in this site.

**Articles Module:**

User can post their invention and also they can know about the ideas of the all Users.

**Search Module**

This module is used to search their queries , the articles and also the inventions. Both registered and non registered users can search over here

## **Hardware Interfaces**

* Windows
* A browser which supports CGI, HTML & Javascript.

## **Software Interfaces**

The question posted by user and replies in this webapp gets stored in database. Database contains the count of the the replies,views on a particular post.

## **Usecase Diagram**

# **System Features**

This is a college forum website. Here student studying in college will be able to connect with their peers and alumni of their college.

## **Adding a new User:**

### Sign up or register a new user(student/faculty)

Student or faculty will be able to signup or register themselves on this forum wiwth any help of third party .

4.1.2 Functional Requirements

To add a new user to the system, all of them should have registered in the admission office before they can register in their classes.

## **Search or Post in various Categories across forum:**

### Student will be able to view post across various different categories like Networks, Machine Learning,etc

4.2.2 To view or search across different categories user should follow those categories.

## **Sort post according to categories:**

4.3.1 Students can search for their queries or doubts according to the categories.

4.3.2 Students should mention type or ccatregories of question whiole posting.

## **Answer a question:**

4.3.1 Faculties as well as Students can reply to a post

4.3.2 In order to reply to a post faculties and Student must be a registered user.

# **Other Nonfunctional Requirements**

## **Performance Requirements**

*<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>*

## **Safety Requirements**

If there is extensive damage to a wide portion of the database due to catastrophic failure, such as a disk crash, the recovery method restores a past copy of the database that was backed up to archival storage (typically tape) and reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed up log, up to the time of failure.

## **Security Requirements**

The Student and faculties should have userid and password to login.Security systems need database storage just like many other applications. However, the special requirements of the security market mean that vendors must choose their database partner carefully.

## **Software Quality Attributes**

Avaliability: The system should be available all the time during an d after college hoursfor maximum gain, The questions posted by student in particular should be available.

Correctness: The answer provided by student on a post should be correct and aligned with question anad can be further verified by expert or faculty

Maintainibility: The administrators, expert and faculties should maintain the decorum and and correctness of answers posted. They should also be able to manage student accounts.

Usability: The forum should satisfy need of most users and should be beneficial to them.

Reusability: The same system should be usable in upcoming semesters and should be modifiable.

## **Business Rules**

*<List any operating principles about the product, such as which individuals or roles can perform which functions under specific circumstances. These are not functional requirements in themselves, but they may imply certain functional requirements to enforce the rules.>*

# **Other Requirements**

*<Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>*

**Appendix A: Glossary**

*<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.>*

**Appendix B: Analysis Models**

*<Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationship diagrams*.>

**Appendix C: To Be Determined List**

*<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they can be tracked to closure.>*