CSC 431

Medical student's collaboration platform

Software Requirements Specification (SRS)

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Version History

Version	Date	Author(s)	Change Comments

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1. System Requirements

1.1 Functional Requirements

< List all functional requirements in the following example format >

1.1.1 Sign up

Title	Sign up
Description	Professor and student will create their account in the application by using sign up function.
Priority	0
Precondition(s)	1. Professor and Student has installed **"Medical student's collaboration platform"** in his/her android device. 2. Professor and student must have internet connection.
Basic Flow	**1.** Professor or student will open the application. **2.** Professor and student will select the "Sign Up" option. **3.** Professor or student will enter the "User Name" **4.** Professor or student will enter the "email address". **5.** Professor or student will enter the "password". **6.** Professor or student will enter the "confirm password". **7.** Professor or student will enter the "contact number". **8.** Professor or student will select their "account type". **9.** Cardiac professor or student will press Sign up button.
Post conditions(s)	Professor or student will directed to the login page.
Use Case Diagram	3.1

1.1.2 Log in

Title	Log in
Description	Professor and student will provide right credential in order to login and use the application.
Priority	0
Precondition(s)	1. User has successfully created the account.
Basic Flow	**1.** Cardiac professor or student will open the application. **2.** Login screen will be displayed to student/ professor. **3.** Professor or student will enter his/her Email address. **4.** Professor or student will enter his/her password. **5.** Professor or student will select the login option.
Post conditions (s)	The dashboard screen will be displayed to the user.
Use Case Diagram	3.1

1.1.3 Edit profile

Title	Edit profile
Description	Professor or student will be able to update his/her profile information.
Priority	2
Precondition(s)	Professor or students has logged in successfully.
Basic Flow	1. Professor or student will select the “Edit Profile” option on the dashboard. 2. Professor or student will update the information. 3. Professor or student will select the update button
Post conditions(s)	The profile will be updated successfully.
Use Case Diagram	3.1

1.1.4 See the list of professors

Title	See the list of professors
Description	Student will see the list of all available professor that have been added in the application.
Priority	2
Precondition(s)	Student has logged in successfully.
Basic Flow	1. Student will click on ‘See professors’ options. 2. System will show the list of all available professors added in the application.
Post conditions(s)	The list will be displayed to the student.
Use Case Diagram	3.1

1.1.5 Send a request to a professor

Title	Send a request to a professor
Description	Student will send the request to the professor to add him/her in the list.
Priority	0
Precondition(s)	Student has seen the list of professors.
Basic Flow	1. Cardiac student will enter name of cardiac professor in search bar. 2. Cardiac student will select “Search” option. 3. Application will show list of cardiac professors. 4. Student will open the profile of professor. 5. Student will select the send request option.
Post conditions(s)	Request will be sent to the professor.
Use Case Diagram	3.1

1.1.6 Accept or reject the student request

Title	Accept or reject the student request
Description	The professor will see the list of all requests and click on 'Accept' or 'Reject' button to accept or reject the request.
Priority	0
Precondition(s)	Professor is logged in.
Basic Flow	**1.** Professor will select the Request icon on dashboard. **2.** Application will show the list of student's request. **3.** Professor will select a student to see the student's profile. **4.** Professor will select the "Accept request" or 'Reject request' options.
Post conditions(s)	A notification regarding request decision will be sent to the student.
Use Case Diagram	3.1

1.1.7 View all students

Title	View all students
Description	The professor will see the list of all students that are added in his/her students list.
Priority	0
Precondition(s)	Professor is logged in.
Basic Flow	**1.** Professor will select "Students" option from the dashboard screen. **2.** Professor will click on the "View all students" option. **3.** Application will show the list of all students to the professor.
Post conditions(s)	The students list will be displayed to the professor.
Use Case Diagram	3.1

1.1.8 View assignments status

Title	View assignments status
Description	Students will see the list of all the assignments status which professor has assigned to him/her.
Priority	0
Precondition(s)	Student is logged into the application successfully.
Basic Flow	**1.** Student will select "Assignments" option from the dashboard screen. **2.** Student will click on the "View assignments" option. **3.** Application will show the list of all assignments and their status to the student.
Post conditions(s)	The students will see the list of all pending assignments.
Use Case Diagram	3.1

1.1.9 Set class schedule

Title	Set class schedule
Description	Professor will set the schedule of a specific class and notification will be sent to all the students.
Priority	3
Precondition(s)	Professor is logged into the application successfully.
Basic Flow	**1.** Professor will select “My Class” option from the dashboard screen. **2.** Application will display the list of all classes to the professor. **3.** Professor will select a specific class. **4.** Professor will set the class time or schedule for the upcoming class. **5.** Application will send the notification of updated schedule to all the students of that particular class.
Post conditions(s)	The class schedule will be updated successfully.
Use Case Diagram	3.1

1.1.10 See class schedule

Title	See classes schedule
Description	Student will see the schedule of a specific class or all classes.
Priority	3
Precondition(s)	Student is logged into the application successfully.
Basic Flow	**1.** Student will select “My Class” option from the dashboard screen. **2.** Application will display the list of all classes to the student along with the class time. **3.** Student will select a specific class. **4.** Application will show the class time and venue to the student.
Post conditions(s)	The class schedule will be displayed to the student.
Use Case Diagram	3.1

1.1.11 Logout

Title	Logout
Description	The user will click on the logout button to stop using the application.
Priority	0
Precondition(s)	The user is logged into the application successfully.

Basic Flow	**1.** The user will select the "Logout" option from the dashboard screen. **2.** The application will destroy the user session. **3.** The application will display login screen to the user.
Post conditions(s)	The user will be logged out from the application.
Use Case Diagram	3.1

1.2 Non-Functional Requirements

1.2.1 Usability

Identifier	NFR-1
Title	Usability of application
Description	The student and professor will have experience to use android applications. Therefore, they will use "CABG Anatomy with E-Learning" within 5 minutes.
Priority	0
Applicable FR(s)	It will be applicable to all the functional requirements.

1.2.2 Message help

Identifier	NFR-2
Title	Message help
Requirement	Application will provide message help to cardiac student and professor i.e. enter the email, enter the password, etc.
Priority	2
Applicable FR(s)	It will be applicable to all the functional requirements.

1.2.3 Forget password

Identifier	NFR-3
Title	Forget password
Requirement	If the user select the forget password option on the login page, a verification code will be sent on the user email. After entering the correct verification password, user will be able to set the new password.
Priority	0
Applicable FR(s)	1.1.2

1.2.4 Enter email address

Identifier	NFR-4
Title	Enter email address

Requirement	If the user does not enter the email address on the login and sign up page, then application will mark the email address box red.
Priority	0
Applicable FR(s)	1.1.1, 1.1.2

2. System Constraints

2.1 Tool Constraints

2.1.1 Integrated development environment

Title	Integrated development environment
Description	We will use Android Studio IDE for the development of this project. As of preparing this document, the latest stable version of Android Studio is 4.1.2.
Priority	0

2.2 Language Constraints

2.2.1 Backend Development Language

Title	Backend Development Language
Description	Medical student's collaboration platform application will be developed in JAVA language. The JAVA language will be used to develop the backend functionalities of application.
Priority	2

2.2.2 Frontend Development Language

Title	Front Development Language
Description	Medical student's collaboration platform application's frontend will be developed in XML.
Priority	2

2.3 Platform Constraints

2.3.1 Android platform

Title	Android platform
Description	Medical student's collaboration platform application will be an android based application and will run on all Android platform i.e. Mobile, Tablets, etc
Priority	0

2.4 Hardware Constraints

2.4.1 Hardware supportability

Title	Hardware supportability
Description	Medical student's collaboration platform application will run on all android devices having android OS 6.0 Marshmallow and above.
Priority	3

2.5 Deployment Constraints

2.5.1 Deploy application on play store

Title	Deploy application on play store
Description	Medical student's collaboration platform application will be deployed on the Google play store. Student and professors will be able to easily download the application from there.
Priority	0

2.6 Budget & Schedule Constraints

2.6.1 Budget requirement

Title	Budget requirement
Description	The budget requirement will Medical student's collaboration platform application will be $500.
Priority	2

2.6.2 Time requirement

Title	Time requirement
Description	The Medical student's collaboration platform application will be $500.
Priority	2

2.7 Miscellaneous Constraints

2.7.1 Application language

Title	Application language
Description	English is the universal language nowadays, therefore, the application language will be English.
Priority	0

3. Requirements Modeling

3.1.1 Requirement Title

4. Evolutionary Requirements

4.1 Functional Requirements

4.1.1 Model View controller (MVC) architecture

Title	Model View controller (MVC) architecture
Description	The application will be developed using the Model View Controller (MVC) architecture. By using MVC architecture, we will be able to add the new features in future easily.
Priority	0
Precondition(s)	The application will be upgraded when there will need of adding new features.
Post conditions(s)	The new features will be added successfully.
Use Case Diagram	N/A

4.2 Non-Functional Requirements

4.2.1 Code standards

Title	Code standards
Description	Proper code standard will be used to develop the application. The comments will be added in the code to understand the functionality in future.
Priority	0
Applicable FR(s)	This applies to all the functional requirements.