

Software Design and Analysis - Fall 2020

Assignment 02

Group:

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Project Summary:

'Nu-demy' is a udemy-like android application for students who can have all of their university resources in one place. It will have all the content (pdfs, videos etc) for all the courses of all the semesters.

Usecases:

User Registration
User Login
View reviews
View My courses
Opt free courses
Opt paid courses
Add to My Courses
Opt courses by faculty
Watch/Download Videos
View/Download PDFs
Download coding files
Download assignments
View/Download tasks
Upload course content
Online guide - Ask
Online guide - Answer
View FAQs
Update settings
Update user profile
User logout

Optional:

Sale on paid courses
Switch to Dark Mode
Search Course

- Registration fails

2. Login

Goal: log in to the system

Preconditions: valid email and password

Successful End Condition: Logged in

Failed End Condition: student failed to log in

Primary Actors: Student/Admin

Secondary Actors: System

Trigger: user attempts to login

Main Flow: - user attempts to log in

- validation successful

- user is directed to homepage/dashboard

Alternate Flow: - user attempts to log in

- wrong password

- user is not logged in

3.View Reviews

Goal: to view reviews given by students

Preconditions: admin/student logged in

Successful End Condition: view reviews by students

Failed End Condition: unable to view reviews

Primary Actors: student

Secondary Actor: admin

Trigger: course exists

Main Flow: - user opens a course

- user reads reviews

Alternate Flow: - course doesn't exist

4. View My Courses:

Goal: view all the courses student has added to My Courses

Precondition: Student logged in

Successful End Condition: view My Courses list

Failed End Condition: cannot view my courses; not logged in

Primary Actors: Student

Secondary Actor: System

Trigger: - user views My courses by clicking My courses tab

Main Flow: - user logs into the system

- User views the list of all courses

Alternate Flow: - user can't view My courses (not logged in)

5. Opt free courses:

Goal: to register free courses

Precondition: student successfully logins

Successful end condition: successful registration

Failed end condition: failed registration

Primary actors: student

Secondary actors: system

Trigger: student selects a free course

Main flow: - student logins

- student selects a free course

- student successfully registers

Alternate flow: - student logins

- free courses not found

6. Opt paid courses:

Goal: to register paid courses

Precondition: successful payment transfer

Successful end condition: successful registration of paid courses

Failed end condition: unsuccessful registration

Primary actors: student

Secondary actors: system

Trigger: student selects a paid course

Main flow: - student logins

- student selects a paid course

- student pays for the course

- successful registration

Alternate flow: - student logins

- student selects a paid course

- student tries to pay but transaction fails

7. Add to My Courses:

Goal: to add selective courses to My Courses (favorites)

Precondition: student logins

Successful end condition: course successfully added to My Courses

Failed end condition: course not added to My Courses

Primary actors: student

Secondary actors: system

Trigger: student selects a course

Main flow: - student logins

- student selects a course

- selected course successfully added to My Courses

Alternate flow: - student logins

- student selects a course
- application crashes
- selected course not added to My Courses

8. Opt courses offered by faculty:

Goal: to register course offered by faculty

Precondition: successful login by student

Successful end condition: successful course registration

Failed end condition: failed course registration

Primary actors: student

Secondary actors: system

Trigger: student selects a course to register

Main flow: - student logins

- student selects a course by faculty
- successful registration

Alternate flow: - student logins

- student selects a course by faculty
- course no longer found
- failed registration

9. Download Files (file can be assignment , coding file , pdf , slides etc)

Goal: To Download File

Precondition: Student must have registered course

Successful end condition: File Downloaded

Failed end condition: File not downloaded

Primary actors: Student

Secondary actors: System

Trigger: Student selects the file to download

Main flow: - Student logins

- Student register the course
- Student Downloads the file

Alternate flow: - Student logins

- Student is not registered in course
- File is not Downloaded

10. Upload Course Content:

Goal: To upload content

Precondition: Admin logged in

Successful end condition: content uploaded

Failed end condition: cannot upload content

Primary actors: Admin

Secondary actors: System

Trigger: Admin selects a course to upload content to

Main flow:

- Admin logs in
- Views courses
- Selects course
- Upload content

Alternate flow:

- Views courses
- Selects course
- Select Upload content
- Cannot upload admin not logged in

11. Online Guide - Ask:

Goal: to ask questions

Precondition: student logged in

Successful end condition: question successfully submitted

Failed end condition: question not submitted

Primary actors: student

Secondary actors: admin

Trigger: query/confusion about some concept arises

Main flow:

- student logins
- student following course
- student has questions about some concept, assignment
- student fills the Online Guide form and submits

Alternate flow:

- student logins
- student following course
- student has no questions

12 Online Guide - Answer:

Goal: Admin staff answer questions

Precondition: Admin logged in

Successful end condition: Answer submitted

Failed end condition: Answer could not be submitted

Primary actors: Admin

Secondary actors: System

Trigger: - Admin answers questions posed by student

Main flow:

- Admin logs in
- Views the questions posed by student
- answers questions

- Alternate flow:**
- Views the questions posed by student
 - answers questions(not logged in)
 - cannot answer q

13 View FAQs:

Goal: Student can view Frequently Asked Questions

Precondition: Student logged in

Successful end condition: If stud. needs FAQ's' answers and has viewed and satisfied

Failed end condition: If stud. does not need FAQ's answers or was not satisfied

Primary actors: admin/student

Secondary actors: System

Trigger: Student's general queries leading to this section

Main flow:

- Student logs in
- Needs some answers
- Visits FAQ section
- Finds answers

Alternate flow:

- Student logs in
- Needs some answers
- Visits FAQ section
- Couldn't find relevant queries

14. Update settings/profile:

Goal: student updates their profile

Precondition: student logged in

Successful end condition: profile/settings updates

Failed end condition: profile/settings failed to update

Primary actors: student

Secondary actors: system

Trigger: student uploads their profile picture

Main flow:

- student logs in
- student goes to settings
- student uploads their profile picture
- profile updated successfully

Alternate flow:

- student logs in
- student goes to settings
- student uploads their profile picture
- profile picture failed to upload because of connectivity issues

15. User Logout:

Goal: log out off the system

Precondition: user successfully logged in

Successful end condition: user logged out

Failed end condition: cannot logout

Primary actors: user

Secondary actors: system

Trigger: user attempts to logout

Main flow:

- user logs in
- views content
- attempt log out

Alternate flow:

- view content
- attempt logout
- cannot log out; not logged in

Activity Diagram:

