**Android Project**

***Team Members:***

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**Project Name:** **Bearcat-Learning Application**

**Github Link:** [**https://github.com/Anirudh-Gunde/BearCat\_Learning**](https://github.com/Anirudh-Gunde/BearCat_Learning)

**Problem/Issue:**

Some popular learning management system often lacks accessibility to previous semester course materials like worksheets, presentations, and PDFs. Students might encounter difficulties accessing this crucial information when they need to review past courses or clarify doubts. Bearcat-Learning aims to address this issue by providing a platform where professors can upload and share course materials, videos, and presentations for both current and past courses.

**Activities and Their Purposes:**

**Login Page (Student):**

**activity\_main.xml**

**Purpose:** Allow students to log in using their student IDs to access course materials and resources.

**Data:** Student credentials (student ID, password).

**Login Page (Professor):**

**activity\_main.xml**

**Purpose:** Allow professors to log in using their professor IDs with admin access to upload and manage course materials.

**Data:** Professor credentials (professor ID, password).

**Dashboard (Student View):**

**Dashboard.xml**

**Student dashboard Layout:** Created the student dashboard layout where after student has been logged in this layout will be appeared and it has the one text view and six image buttons each image button represents one singe course. After user clicking on the course it will be directed to next layout.

**Purpose:** Display a personalized dashboard for students where they can see a list of their enrolled courses and access course materials.

**Data:** Student profile, enrolled courses.

**Dashboard (Professor View/Admin):**

**admin\_dashboard.xml**

**content\_modification.xml**

**Admin Layout:** In the admin layout, professors can log in to the platform. Once logged in, the layout dynamically displays the available subject names based on the professor's login. Professors have the option to select a specific subject and then proceed to upload videos or files related to that subject.

**Admin Dashboard Layout:** In the admin layout, professors can log in to the platform. Once logged in, the layout dynamically displays the available subject names which are represented by image buttons based on the professor's login. Professors have the option to select a specific subject and then proceed to upload videos or files related to that subject.

**Purpose:** Display a dashboard for professors with additional options to upload and manage course materials.

**Data:** Professor profile, courses taught, uploaded materials.

**Courses List:**

**Purpose:** Present a list of courses available to the student or professor.

**Data:** Course names, descriptions, materials available.

**Material and Videos View:**

**activity\_content.xml**

**Purpose:** Allow students and professors to view and interact with course materials (PDFs, videos, PPTs) within selected courses.

**Data:** Course materials, video links, uploaded files.

**Flow Between Activities:**

***Login -> Dashboard (Student View):*** After logging in, students are directed to their personalized dashboard.

***Login -> Dashboard (Professor View/Admin):*** Professors with admin access are directed to their admin dashboard.

***Dashboard (Student View) -> Courses List:*** Students can browse available courses.

***Dashboard (Professor View/Admin) -> Courses List:*** Professors can view and manage courses.

***Courses List -> Material and Videos upload:*** Clicking on a course allows access to course materials.

***Dashboard (Professor View/Admin) -> Material and Videos View:*** Professors can upload, manage, or delete materials within a course.

**Data Storage Considerations:**

**User Profiles:** Store user data, including student and professor information.

**Course Information:** Keep details of all available courses.

**Uploaded Materials:** Store course materials, videos, presentations, and PDFs.

**Enrollment Records:** Maintain records of students enrolled in each course.

**Tentative Designs:**

**activity\_main.xml**

A screenshot of a login screen

Description automatically generated

**Dashboard.xml**

A screenshot of a phone

Description automatically generated

**Dashboard (Professor View/Admin):**

A screenshot of a phone

Description automatically generated

**Admin Dashboard Layout**

A screenshot of a cell phone

Description automatically generated

**activity\_content.xml**

ssA screenshot of a computer

Description automatically generated

**Milestone -2**

**Nishanth Raju Saraswathi:s**

*dashboard.java*

Changed the intent of the dashboard so that when clicking the image button, it redirects to a new layout.

*java\_course\_syllabus.xml*

Added the course list and buttons. When clicking on the buttons, it redirects to the respective layout.

Added functionality: Clicking on the "View Notes" button redirects to the PDF reader layout. Clicking on the "View Video" button redirects to the content view layout.

*JavaCourseActivity.java*

Declared and assigned instance variables, and added intents to redirect to the next class when clicking on buttons.

**Manasa Akula:**

*AndroidManifest.xml*

Added permissions to access the Internet and Storage.

*build.gradle*

Added Firebase Storage dependency.

*UploadFileActivity.java*

Initialized references to the Firebase database and storage.

Implemented methods for picking files and handling file uploads.

*UploadVideoActivity.java*

Initialized references to the Firebase database and storage.

Implemented methods for picking videos and handling video uploads.

**Anirudh Gunde:**

*activity\_main.java*

Added Firebase code for login.

Added Firebase credentials for student login on the dashboard layout.

Added admin credentials for login within the code (temporary) for the admin dashboard layout.

*build.gradle*

Added Firebase Storage dependency.

Added Firebase user authentication

*dashboardActivity.java*

Added a logout button.

Added an intent for navigating to the PDF reader layout (commented code for now).

*pdfreaderActivity.java*

Added intent code for redirection.

**Joyce Meyer Lingam:**

*Activity\_pdfreader.xml*

Added the PDF reader layout.

Added TextViews to the layout.

*PdfReaderActivity.java*

Added storage code from Firebase (commented as it's still a work in progress).