**Data flow Diagram**

Student

Add new user

user name and password

Pass mark in exit exam

New user record

Verification

student DB

Authorized

Weekly submissions

Final project submissions

Topic selected

Viva voce data

prevent multiple selection

Fetch Project topics

Project DB

Display project details

Discussion forum data

Fetch and display mark and comments

**Processes**

1. **Home Page**
   * Student navigates to the home page.
   * Displays **Sign Up** and **Login** options.
2. **Sign Up**
   * Student provides details (Name, Email, Password, Phone Number).
   * Exit exam result is validated.
   * Stores data in **Student Database**.
3. **Login**
   * Student enters credentials (Email, Password).
   * Validates credentials using **Student Database**.
   * Redirects to the **Student Dashboard** upon success.
4. **Student Dashboard**
   * **1.1 Display Project Topics**:
     1. Fetch project topics from the **Project Resources Database**.
   * **1.2 Select Project Topic**:
     1. Validate the selection and store it in the **Student Database**.
     2. Prevent multiple selections.
   * **1.3 Redirect to Project Dashboard**:
     1. Automatically transition the student to the project-specific dashboard.
5. **Project Dashboard**
   * **2.1 Display Project Details**:
     1. Fetch the project overview document from the **Project Resources Database**.
   * **2.2 Weekly Submissions**:
     1. Open submission links only at the end of each week.
     2. Allow students to upload files or submit links.
     3. Store submission data and comments in the **Student Database**.
   * **2.3 Final Project Submission**:
     1. Open final project submission at the end of the internship.
     2. Collect files and comments and store them in the **Student Database**.
   * **2.4 Viva Voce Preparation**:
     1. Display viva voce format.
     2. Open the submission link after the final project is submitted.
   * **2.5 Discussion Forum**:
     1. Allow students to post, edit, and comment on queries.
     2. Store forum data in the **Student Database**.
   * **2.6 View Marks and Feedback**:
     1. Fetch and display marks and feedback for each submission from the **Student Database**.

### **Key Data Flows**

* **Home Page → Sign Up**: Student enters details → Validates exit exam result.
* **Sign Up → Student Database**: Stores valid registration details.
* **Login → Student Database**: Verifies credentials → Redirects to Student Dashboard.
* **Student Dashboard**
  + Fetch topics from **Project Resources Database**.
  + Store selected topic in **Student Database**.
* **Project Dashboard**
  + Fetch project overview, reference materials, and submission formats from **Project Resources Database**.
  + Store weekly submissions, final project, viva voce data, and forum queries in **Student Database**.
  + Fetch marks and feedback from **Student Database**.