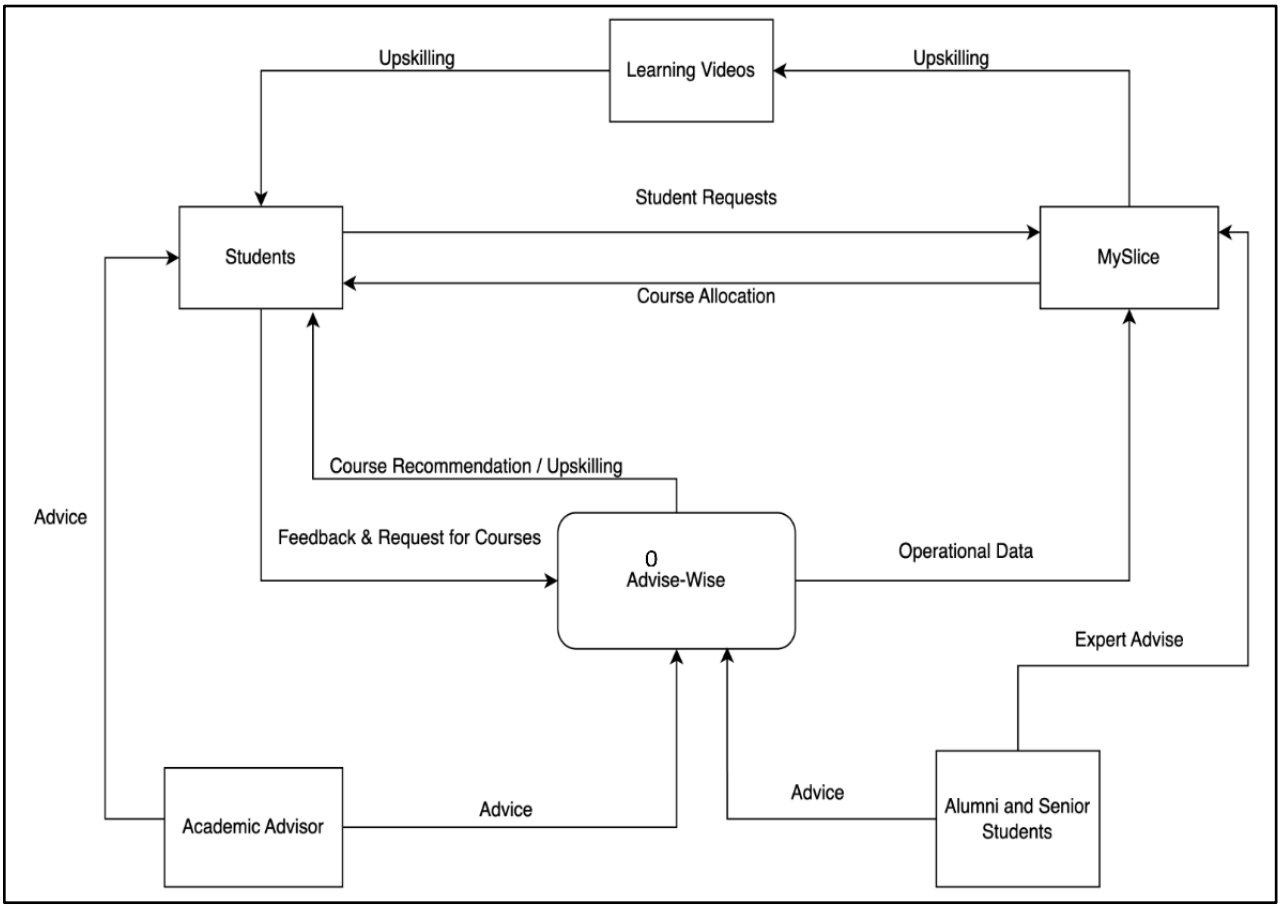
Project Assignment - Week Six Deliverables

Group No 3 – Team Members

- Tanmay Doke
- Shubham Patil
- Manali Chaudhari
- Ishita Trivedi
- Tejal Palwankar

CONTEXTUAL DIAGRAM



HIGH LEVEL PROCESSES

1. Register User and Setup Profile

Process Description: Students, academic advisors, and alumni register on the AdviseWise platform and set up their profiles, providing relevant academic, career interests, and experience information.

Key Activities:

Account creation

Profile information input

Data privacy and consent agreements

2. Integrate and Analyze Data

Process Description: Integration of AdviseWise with existing university systems (Myslice, Handshake) to pull relevant student academic records and performance data. The system analyzes this data to generate personalized academic and career guidance.

Key Activities:

Data synchronization

Historical academic performance analysis

Career aspiration and preference matching

3. Generate Personalized Academic Advice

Process Description: Using AI algorithms, the system provides students with personalized course recommendations, academic advice, and career path guidance based on their profiles, academic history, and career aspirations.

Key Activities:

Generation of personalized course recommendations

Provision of career path guidance

Scheduling assistance for academic planning

4. Track Progress and Send Alerts

Process Description: Students can track their academic progress in real-time through the system, receiving alerts and reminders about registration deadlines, course completion, and academic performance.

Key Activities:

Monitoring academic progress

Sending notifications and reminders

Providing performance feedback

5. Facilitate Advisor and Alumni Engagement

Process Description: Facilitates interaction between students and academic advisors or alumni for mentorship, advice, and industry insights, enhancing the advising process with human experience and expertise.

Key Activities:

Mentorship session scheduling

Discussion forums and Q&A

Sharing of industry insights and experiences

6. Continuously Learn and Optimize System

Process Description: The system continuously learns from new data, user interactions, and feedback to improve its algorithms, ensuring the advice remains relevant and effective.

Key Activities:

Gathering and analyzing user feedback

Updating AI models with new data

Implementing enhancements based on analytics

7. Ensure Compliance and Data Security

Process Description: Ensures all personal and academic data is handled in compliance with legal and university regulations, maintaining the highest standards of privacy and security.

Key Activities:

Regular security audits

Compliance checks with data protection regulations

User data encryption and access control

8. Generate Reports and Analytics for University Management

Process Description: Provides university management with detailed analytics and reports on student success rates, advisor efficiency, and overall system performance to inform decision-making and resource allocation.

Key Activities:

Generation of performance analytics reports

Analysis of student success and retention rates

Insights into system usage and effectiveness

Task Responsibility

Task ID	Task	Tanmay Doke	Shubham Patil	Manali Chaudhari	Ishita Trivedi	Tejal Palwankar
A	Requirements Gathering	P	S	S	S	S
A1	Define project scope	P	S	S	S	S
A2	Identify stakeholders	P	S	S	S	S
A3	Collect user requirements	P	S	S	S	S
B	System Design	S	P	S	S	S
B1	Create system architecture	S	P	S	S	S
B2	Develop data models	S	P	S	S	S
B3	Design user interface	S	P	S	S	S
C	Development	S	S	P	S	S
C1	Implement backend logic	S	S	P	S	S
C2	Build frontend components	S	S	P	S	S
C3	Integrate third-party services	S	S	P	S	S
D	Testing	S	S	S	P	S
D1	Write test cases	S	S	S	P	S
D2	Perform unit tests	S	S	S	P	S
D3	Conduct integration tests	S	S	S	P	S
E	Deployment	S	S	S	S	P
E1	Deploy to staging environment	S	S	S	S	P
E2	Monitor system performance	S	S	S	S	P
E3	Provide user training	S	S	S	S	P
F	Monitoring and Optimization	S	P	S	S	S
F1	Analyze system usage	S	P	S	S	S
F2	Collect user feedback	S	P	S	S	S
F3	Implement system enhancements	S	P	S	S	S

Data Assests:

1. Student Profiles: This would encompass personal and academic history, preferences, and performance data that are critical for making personalized course recommendations.

2. Learning Content: This asset includes all the learning videos and materials used for upskilling students.

3. Course Data: Detailed information on courses, which would be used by the system to allocate courses to students and make recommendations for upskilling.

4. Student Requests and Feedback: This asset captures all the inputs from students regarding course preferences, feedback on recommendations, and any requests for additional courses or advice.

5. Operational Data from MySlice: MySlice is likely a university management system, so operational data would include schedules, grades, enrollment information, and other administrative data.

6. Advice Records: Documentation and logs of advice given to students, either by the AdviseWise system, academic advisors, or alumni and senior students.

7. Alumni and Senior Student Input: Information and advice from alumni and senior students that can be used to inform the advice given to current students.

8. Upskilling Records: Data on the upskilling pathways recommended or undertaken by students, including outcomes and progress.

Each of these data assets would be integral to the functionality of the AdviseWise system, enabling it to provide personalized academic advice and upskilling opportunities to students.

Communication Plan:

Activity	Type	Frequency	Attending	Purpose
Project Planning Meeting	Video Conference	Start of each phase	Project team, key stakeholders, project manager	Discuss phase objectives, milestones, and roles.
Team Touch-Base	In Person / Virtual	Weekly	Team members and project manager	Update on weekly progress, discuss issues and solutions.
Requirements Workshop	In Person / Virtual	Start of Requirements Gathering phase	Project team, academic advisors, IT department, students	Gather comprehensive requirements and ensure stakeholder needs are understood.

Monthly Progress Report	Email	Monthly	Project team, Professor	Report on project status, analytics, and performance indicators.
Continuous Feedback Loop	Online Surveys / Feedback Forms	Continuous	End-users, project team	Gather ongoing user feedback for system improvements.
Final Project Closure Meeting	In Person / Virtual	End of the project	Project team, key stakeholders, university management	Finalize the project, document lessons learned, and celebrate achievements.