



## 3.2 CORE

Flow Model (GROUP)

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## Components of the Work Flow Model

- Individual users: students, teachers, specialists, school staff, associations, etc.
- Groups: learners, educators
- Roles and responsibilities:
  - Learners (students, workers in training, etc.): Log in to the system, do assigned quizzes, and revise tests and assessments.
  - Educators (staff, tutors, teachers, etc.): Moderate the system, post quizzes, and make additional fixes to the questions if necessary.
- Artefacts:
  - Leaderboards: Used to rank students based on their results.
  - Educator portal: Used to create/modify classes
  - Classes: Created by educators through the educator portal. Contain questions and quizzes for students to improve their knowledge and skills
  - Inbox: used to send users announcements and notifications.
  - Settings: Modifying sounds, notifications, time, language, etc.
  - Help and support: App tutorial, help centre, FAQ, feedback, terms and policies, contact, etc.
  - Mobile phones: Provide the interface in which the students can access the system to aid the learning process.
- Flow: <The PDF file of the diagram will be included with the submission of this document>
- Places:
  - Workplaces (corporations, companies, etc.)
  - Educational institutions (universities, high schools, etc.)

## Requirements:

### 1.1 Make the leaderboard more accessible

- **Requirement:** The leaderboard shall be put on the main page showing the ranking of the user and top users/users in the same classes.
- **Rationale:** Due to human rivalry, when the user sees that his/her ranking is not high enough, he/she will have a more concerted effort to reach the rank that they want. On the other hand, people who have a high ranking need to care about their ranks and keep moving, not letting others catch up. The ranking of the user can motivate learners to study more.
- **Note:** The leaderboard can be divided into boxes. One box is used to show 3 top users in the whole app. Then there are many boxes showing the top users in the classes. The user's rankings are also presented in those boxes. The user can click on each box to open the full leaderboard and see more specific details.

### *1.2 (Usability) More design features to add content for quizzes*

- **Requirement:** There shall be many more features added to the quiz system to support the content and questions.
- **Rationale:** Some teachers and educators are complaining about the limitation of the current creation and design board for their quizzes. As a result, the bad performance of this feature reduces the competitive edge of the application. So, additional design features can help the teachers to generate higher-quality quizzes in a shorter time and with less effort.
- **Note:** The design features can include multiple options and functions for creators (teachers) such as design toolbar or toolbox, media (videos, podcasts) insertion when they make the quizzes and managing the contents inside.

### *1.3 Create a menu for easier navigation throughout the app.*

- **Requirement:** There shall be a navigator for users to go around the app
- **Rationale:** The menu shall help users browse and navigate through the app more easily. We can strongly enhance the user experience and satisfaction by making them feel more comfortable with the time saved while using the app. When the element of navigation is secured, then different functionalities like the leaderboard and achievement system can be fully accessed with ease.
- **Note:** The menu shall be seen on the top right corner of the page. When users click on the menu bar, they shall see the parts that are covered in this app like the username, profile, notification, and the general settings.

### *1.4 Notification management*

- **Requirement:** There shall be a notification system that can be set by the user based on their willingness to use reminders or receive app announcements.
- **Rationale:** More advanced notification settings can be implemented to help learners manage their learning tasks through daily reminders. The notification pop-ups must also be shown in a logical order for prioritizations that can be seen on the mobile app.
- **Note:** The most recent and important notifications appear on the top of the list, and teachers will be able to see if the resources have reached the students yet.