# Software Engineering Project Milestone - 1

Tasks for Milestone 1

- 1. Identifying Primary Secondary and Tertiary Users
- 2. User Stories for the requirements based on **SMART** guidelines

# Identifying Primary Secondary and Tertiary Users

Here are the various types of users that are identified to use this application and categorized into different groups

## Primary Users

These are direct users who interact with the system regularly and whose primary activities are directly supported by the system.

- 1. **Students**: They use the system to raise tickets for issues or queries
- and engage with the support process, including viewing FAQs, participating
   in Discourse threads, and providing feedback on resolved tickets.
  - 2. **Support Staff**: This group includes individuals responsible for
- addressing and resolving the tickets raised by students. They interact with the system by managing tickets, responding to queries, and updating the status of issues.
- 3. **Administrators**: These users oversee the system's operation, including managing user roles, updating FAQs based on resolved tickets, and analyzing feedback for system improvement.

## **Secondary Users**

These users indirectly interact with the system or use it for oversight, maintenance, and analysis purposes.

1. **Developers and Technical Teams**: Responsible for integrating new features, maintaining the system, ensuring uptime, and addressing any technical issues that arise.

- 2. **Support Team Leaders**: They review performance metrics, oversee the support staff's work, and use feedback and system data to identify training needs or areas for improvement.
- 3. **Data Analysts**: Specialists who analyze ticket data, feedback, and system usage patterns to provide insights into common issues, system efficiency, and user satisfaction.

## **Tertiary Users**

These users are not directly interacting with the system but are affected by its outputs or may use its data for external purposes.

- 1. **Higher Education Authorities**: These could include university management or external educational bodies interested in oversight and ensuring the system meets quality and responsiveness standards.
- 2. **Third-Party Applications and Services**: External services that might integrate with the system for added functionalities, such as chatbots for automated support or analytics platforms for deeper insights.
- 3. **Researchers and Educational Technologists**: Individuals or groups studying the effectiveness of support systems in educational environments could use anonymized data from the system for their analyses.

# **Writing User Stories**

## **Primary Users**

#### Students

- 1. As a student, I want to see a Discourse thread linked to each support ticket I create, so that I can follow discussions and solutions related to my query.
- 2. As a student, I want to be able to +1 an existing ticket that matches my concern, so that I can avoid creating duplicate tickets and help prioritize common issues.
- 3. As a student, I want to receive notifications when my ticket status changes or when there's a reply on the associated Discourse thread, so that I'm always informed about the progress and solutions.
- 4. As a student, I want to have the ability to mark a ticket as resolved once my query has been adequately addressed, ensuring clarity for support staff and other students regarding the resolution of common issues.

## Support Staff

- 5. As a support staff member, I want to convert a private Discourse thread to a public one after resolving a ticket, so that the solution can benefit more students and possibly reduce future tickets on the same issue.
- 6. As a support staff member, I want to receive alerts on high-priority tickets through GChat, so that I can address urgent issues promptly.

#### Administrators

- 7. As an administrator, I want to categorize resolved tickets and their solutions into the dynamic FAQ section, so that students can easily find answers to common queries, reducing the overall ticket volume.
- 8. As an administrator, I want to be able to send alerts on GChat to support staff for urgent issues or updates, ensuring they are promptly informed and can react quickly to address any concerns.

# **Secondary Users**

Developers and Technical Teams

7. As a developer, I want to integrate the ticketing system with Discourse and Google Chat through APIs, so that the system functions seamlessly and automates notifications and thread creation.

### Data Analysts

8. As a data analyst, I want to analyse the feedback and +1/-1 data from tickets, so that we can generate insights on support performance and common issues. (Optional)

# **Tertiary Users**

Third Party Apps

9. As a third-party app developer (considering integration), I want to access public data from the ticketing system, such as FAQs and public Discourse threads, so that I can include this information in our app to provide additional resources to students. (optional)