Identifying the tasks and activities that need to be completed in order to achieve the project's objectives.

Objective 1: Establish a Complete Service Subscription System for Students

1. **Task 1: Design User Interface for Subscription**
    - Subtask 1: Create wireframes for online subscription portal.
    - Subtask 2: Design user-friendly interfaces for cash payment at the finance department.
2. **Task 2: Develop Online Payment System**
    - Subtask 1: Integrate a secure online payment gateway.
    - Subtask 2: Implement a database system to store payment records.
3. **Task 3: Implement Subscription Record Management System**
    - Subtask 1: Create a database schema to store subscriber information.
    - Subtask 2: Develop a system for the finance clerk to input payment details and generate receipts.
4. **Task 4: Incorporate Instalment(payment by parts) Payment Option**
    - Subtask 1: Modify the payment system to handle two instalments.
    - Subtask 2: Update the receipt generation to reflect instalment details.
5. **Task 5: Validate Student Eligibility**
    - Subtask 1: Implement a verification process to ensure only eligible students can subscribe.
    - Subtask 2: Integrate student identification using school registration number.

Objective 2: Enable Real-Time Localization and Tracking of the Bus

1. **Task 1: Develop Bus Information Management System**
    - Subtask 1: Design a database schema for storing bus details.

- Subtask 2: Implement a system for the finance department to manage insurance and fueling records.

2. **Task 2: Create Driver and Conductor Information System**
    - Subtask 1: Design a database schema for driver and conductor details.
    - Subtask 2: Develop a system to track driving license information.
3. **Task 3: Implement Real-Time Bus Tracking System**
    - Subtask 1: Integrate GPS technology for real-time bus location tracking.
    - Subtask 2: Develop a user application interface for students to track the bus.
4. **Task 4: Define Bus Stops and Routes**
    - Subtask 1: Establish a database schema for bus stops.
    - Subtask 2: Develop a system for the bus to adhere to specific routes and stops.
5. **Task 5: Analyze Bus Departure Algorithm**
    - Subtask 1: Design an algorithm to analyze the percentage of students ready to go back home.
    - Subtask 2: Implement the algorithm to provide real-time departure analysis.
6. **Task 6: Set Time Constraints for Bus Stops**
    - Subtask 1: Define the maximum time a bus can stay at a non-school bus stop.
    - Subtask 2: Implement time-tracking mechanisms for bus stops.
7. **Task 7: Implement Student User Application**
    - Subtask 1: Design a user-friendly application for students to interact with the bus tracking system.
    - Subtask 2: Ensure the application allows students to indicate their readiness to board the bus.