

Overview: In this lab you will be identifying use cases and generating use case diagrams for the transit application project. Consider **only** the following features for this lab: 1, 5, 6, and 11. Note that this is an individual lab.

Learning Outcomes:

- Understand and create User Stories
- Create use-cases including rainy-day scenarios
- Create a Use Case Diagram from your User Stories

Instructions:

Using the transit project description, identify the users/actors (there should be several) for the specified features. For each of the specified features, write at least one user story for each actor to capture the functionality described in that feature as well as the actor's goal for each user story. Identify any notable preconditions or postconditions for each story. Although these do not constitute a full use case, place the user story and conditions together in the use-case template and simply omit the elements of the use case that you are not required to write.

Write at least two complete use-cases including all elements and both a sunny-day scenario and a "rainy day scenario" including recovery steps. See the provided use-cases for a library application as an example. Although you don't need to match the formatting of the provided example, your document's formatting should be at least as nice as it.

Create a **single** use case diagram that captures the actors, use cases, and associations between them. Use shortened descriptions for all use cases in the diagram. You are encouraged to use Powerpoint or any other graphical tool you prefer with to generate this diagram.

Deliverables: Upload to e-submit a pdf with your name, the course code (SE2030), the lab number and title, any date on which you worked on the lab, your user stories, use cases, and use case diagrams (created as described above) before the due date for your section below. Make sure your user stories are numbered to make feedback easier.

Lab Checkoff: You should describe your partially completed user stories to the instructor before the end of the lab period. Note that not everyone will be able to do this right before the end of lab, so when you have at least two user stories written, feel free to call the instructor over for feedback. For the morning section, this should be completed by the end of the lab period. For the afternoon section, this must be completed by the end of class on Thursday.

Due Date: Start of Class, Last Class of Week 2. (Lab 2 will be due at the same time.)

Grading:

User Stories	30%
Preconditions/postconditions	15%
Use Cases	20%
Use Case Diagram	25%
In class checkoff	10%
TOTAL	100%