

## Interaction Design Lab – Week 03 – Individual Assignment

Full Name:

Student ID:

Deadline: 23:59 05/10/2025

Submission File Name: Interaction Design Lab – Week 03 – StudentID.docx

Academic Integrity: **This is an individual assignment. Any form of copying will result in a grade of ZERO. Copy and paste from AI tools is prohibited and will result in a grade of ZERO.**

### Objectives

- Handle complex and conflicting requirements.
- Apply elicitation, analysis, and prioritization techniques.
- Practice systematic documentation of requirements.

### Instructions (2 hours)

#### Part A – Stakeholder Discovery & Conflicts (25 mins)

1. Choose one scenario: Campus Fitness App, Smart Parking Finder, or Library Study Room Booking.
  2. Identify at least 4 stakeholder groups (e.g., students, IT, facility managers, visitors).
  3. Write 3 needs/pain points per group.
  4. Find at least 2 conflicting requirements (e.g., students want free access vs. IT requires login security).
- Deliverable: Table of stakeholders, needs, conflicts highlighted.

#### Part B – Personas (20 mins)

1. Create 2 personas with different/conflicting goals.
    - Include demographics, goals, frustrations.
    - Add a simple sketch/photo.
  2. Ensure one persona represents a challenging stakeholder (e.g., administrator with strict requirements).
- Deliverable: Persona cards.

#### Part C – User Stories & Requirement Prioritization (30 mins)

1. Write 5+ user stories (Agile format: As a [role], I want [behavior] so that [benefit]).
2. Extract requirements:
  - Functional: features the system must implement.
  - Non-functional: usability, reliability, performance.

- Data requirements: inputs/outputs, information to store.
  - Environmental constraints: device, location, network.
3. Prioritize using MoSCoW method (Must/Should/Could/Won't).
- Deliverable: Requirement table with type + priority column.

#### **Part D – Scenarios & Use Cases (30 mins)**

1. Write two scenarios (different personas, different flows).
  2. Draw a use case diagram with at least 5 use cases.
  3. Write one essential use case with extensions/alternatives (e.g., what if login fails).
- Deliverable: Scenario text, diagram, use case table with alternatives.

#### **Part E – Validation & Reflection (15 mins)**

1. Pick 3 requirements and check if they:
    - Align with personas' goals.
    - Resolve or create conflicts.
  2. Write a short reflection:
    - Which requirement was hardest to capture? Why?
    - How would you validate it with stakeholders?
- Deliverable: Validation checklist + 1 paragraph reflection.