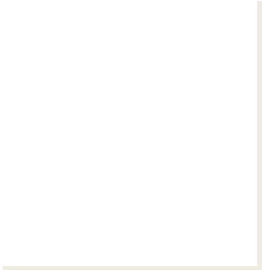# Requirements Analysis

Lab 1

Contents

Lab 1 exercises

lab time: 120 minutes

Complete the Lab 1 exercises as a team

(form groups of 3-4 students, one person plays the

stakeholder)

Lab 1 Exercises

Lab Tools:

The following tools are recommended to complete lab 1 activities:

- Download and use Visual Paradigm Community Edition

- Use the online drawing tool: draw.io

Feel free to use other tools of choice!

Lab 1 Exercises

Lab Case Study: The bank system

Your team is hired to develop a desktop banking application for local bank. The bank manager has general IT knowledge but does not know programming too well.

The bank currently operates a web-based application. The objective is to have an in-branch desktop application that includes two types of banking interactions: CLI and GUI.

Both interfaces should be accessible using the branch computers where the application is installed. After consultation with the bank manager, the decision was to name the new application: DeskBankApp.

DeskBankApp enables registered bank customers and bank employees (Manager) to access the system.

DeskBankApp computers are mounted on top of small ATMs to allow customers make deposits or withdraws.

Lab 1 Exercises

Lab Case Study: The bank system – The manager's requirements

The bank manager requires the following functionalities in DeskBankApp:

- Customer can log in to the system (assume either GUI or CLI)

- Manager can log in to the system (assume either GUI or CLI)

- Customer can view their bank accounts

- Customer can make a deposit

- Customer can pay (an account or a credit card)

- Customer can withdraw

- Manager can view all customers

- Manager can add/remove a customer

Lab 1 Exercises

Lab Activities: Requirements Analysis

1. Read and understand the requirements, discuss the requirements within your team.

2. Conduct requirements testing with the stakeholder. [check for: compliance, correctness, completeness, consistency, usability]

3. Identify use cases.

4. Write the use cases as "user stories" and map them into a user story backlog.

5. Draw a use case diagram for the new DeskBankApp system.

Thank You