ShoePPING

1 Software Requirement Specification

1. Introduction

1. Aim of the document.
   The purpose of the document is to describe the functionality of the application ShoePPING.

2. Overview of the defined system.
   The application allows the shoe shop owner to manage the online sale of their products and maintain their catalog of shoes.
   The application allows users to sell shoes and buy new and used shoes.

3. HW e SW requirements.
   Minimum hardware requirements:
   Processor: Intel(R) Core(TM) i5-8265U CPU @ 1.60GHz   1.80 GHz
   RAM: 16,0 GB
   Hard disk: 80 GB

   Minimum software requirements:
   OS: Windows 10
   SW: IntelliJ

4. Related systems, Pros and Cons.
   Nike Sportswear
   Compared to our app, Nike Sportswear offers more support options (favorites list, shopping cart, chat support). Unlike our app, it doesn't allow users to sell their shoes online

   Vinted
   Vinted allows users to communicate via chat, simplifying the sales agreement. When a user puts an object up for sale, he can insert one or more photos of the product. The application only manages the sale between private individuals, as there is no shop as manager.

2. User Stories
   Daniele Ausili:

1. As a customer,
   I want to know the prices of the shoes,
   so that I can choose according to my budget.

2. As a shopkeeper,
   I want to check customers' orders,
   so that I can accept or reject them.

3. As a seller,
   I want to know the buyer's address,
   so that I can ship the shoes to him.

Carmine Aprile:

1. As a seller,
   I want to sell my shoes online,
   so that I can earn money by selling shoes that I don't use.

2. As a shopkeeper,
   I want to update the shoes' prices,
   so that I can give discounts.

3. As a customer,
   I want to check my orders,
   so that I can see what I have bought.
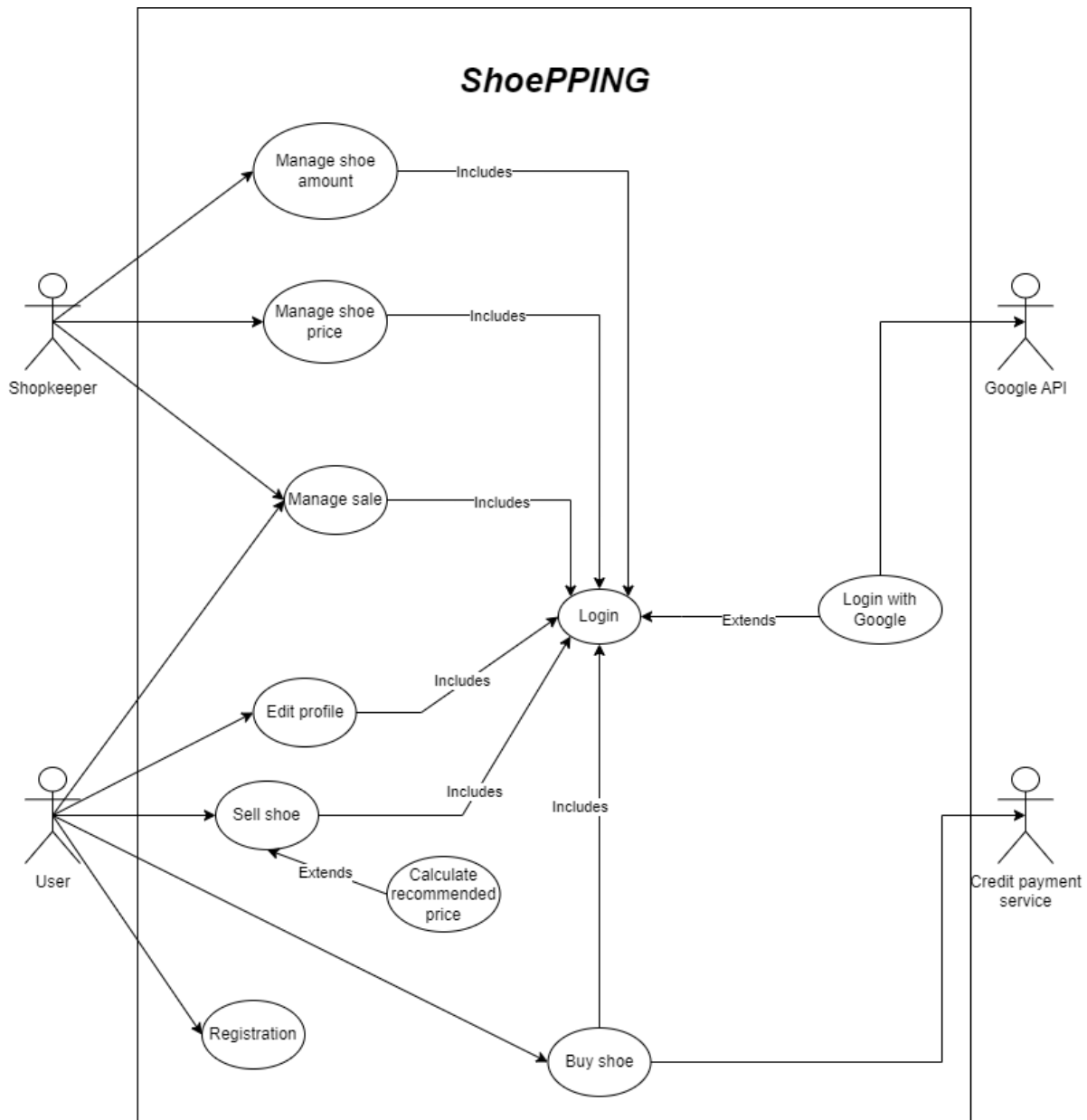
3. Functional Requirements
Daniele Ausili:

1. The system shall display a message when the customer registers correctly.

2. The system shall store information about the order in a database when a customer buys a pair of shoes.

   2.1. The system shall memorize the date, the item, the price, the condition, the address, and the status of the order.

3. The system shall display a list of shoes when the customer clicks on the catalog of used shoe menu.

Carmine Aprile:

1. The system shall display an error message when the customer inserts invalid data on the login page.

2. The system shall edit the customer's profile data when he changes his data on the profile menu.

3. The system shall display the login page right after the shopkeeper clicks the exit button in the top right corner.

4. Use Cases: Overview Diagram

Google API and Credit payment service have not been implemented in the code.

2 Storyboards

Link file HTML:

ShoePPING-Storyboards.html

3   Design

- **Class Diagram**

  VOPC:
  Daniele Ausili:
  VOPC-DanieleAusili.pdf

  Carmine Aprile:
  VOPC-CarmineAprile.pdf

  Design-Level Diagram:
  Daniele Ausili:
  DesignLevelDiagram-DanieleAusili.pdf

  Carmine Aprile:
  DesignLevelDiagram-CarmineAprile.pdf

- **Design patterns**
  Daniele Ausili:
  The observer pattern is used in Buy Shoe UC. Given a list of sizes and quantities, we want to update the visibility of the buttons and the chart relating to it.

  Carmine Aprile:
  The adapter pattern is used in Sell User Shoe UC. Given the price and condition of a shoe, we want to calculate the recommended selling price.

- **Activity diagram**
  ActivityDiagram-DanieleAusili.pdf
  The timer and notification handling have not been implemented in the code.

  ActivityDiagram-CarmineAprile.pdf
  The wait timer has not been implemented in the code.

- **Sequence diagram**
  While writing the code, it was decided to simplify the structure of the sequence diagram to reduce the number of screens.

  SequenceDiagram-DanieleAusili.pdf
  Buy Shoe GUI and Shoe Details GUI have been merged into the same screen.

  SequenceDiagram-CarmineAprile.pdf
  MySales GUI is now accessible only from Profile GUI.

- **State diagram**
  While writing the code, it was decided to simplify the structure of the state diagram to reduce the number of screens.

  StateDiagram-DanieleAusili.pdf
  Shoe Details, Payment View, and Payment Form have been merged into the same screen. The payment method is entered at the time of purchase.

  StateDiagram-CarmineAprile.pdf
  All the views related to the recommended price have been merged into the Sell View.
  My sales view is now only accessible from the Profile View

4   Testing

- **Selenium test via GUI**
  Daniele Ausili:
  CheckAvailabilityTest.zip

  Carmine Aprile:
  CheckPriceTest.zip

- **Selenium test via API**
  Daniele Ausili:
  CheckAvailabilityTest.side

  Carmine Aprile:
  CheckPriceTest.side

5   Code
ShoePPING

6   Video
ShoePPING.mpeg