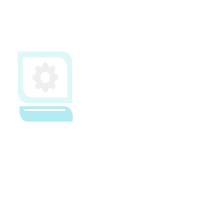
# **COMPYSYS 302 PROJECT 2**

# Team 69

# Julia Shan & Manoj Kumaraguru



# Personal Computer Part Chooser

# Introduction

Our app is called PC­2, abbreviated from PCPC meaning Personal Computer Part Chooser. It is designed to showcase PC (personal computer) parts. Our app will showcase five different categories: CPUs (central processing unit), GPUs (graphic processing unit), memory (RAM), storage (HDDs and SSDs) and motherboards. These parts are the fundamental units for building a personal desktop computer.

Our ‘top picks’ on our MainActivity screen will display the most recent release of each category as well as a list of each category which takes the user to a ListActivity. The ListActivity screen consists of all the products for each selected category. Each item is listed with an image, the price and name of the item. Upon selecting an item our app takes the user to a DetailsActivity screen. This screen will show 3 images that the user can swipe between, the PC part name, price and further details and specifications about the part. Additionally, we will have a search feature on the MainActivity screen which allows the user to enter a search term and will take them to a SearchActivity screen to display results. If there are no results, or the search term is invalid, an error message will display.

# System Modelling

**Use case diagram**

Diagram

Description automatically generated

**Actors**: App user, data provider

**Use cases**: search item, browse search list, display error, browse category, browse top picks, view details

**Use case descriptions**

|  |  |
| --- | --- |
| Use case name | Search item |
| Participating actors | App user |
| Flow of events | 1. User enters search term(s) 2. System processes search term |
| Alternative flows | 3a. Search is invalid  3b. Error message displays |
| Entry Conditions | User enters search term |
| Exit Conditions | User exits search or search is completed |

|  |  |
| --- | --- |
| Use case name | Browse search list |
| Participating actors | App user |
| Flow of events | 1. System displays a list of items matching search terms 2. Items displayed in order of relevance |
| Alternative flows | 1a. System displays a list of items matching search terms in order of date released  1b. System displays a list of items matching search terms in alphabetical order  1c. System displays a list of items matching search terms in order of price (ascending)  1d. System displays a list of items matching search terms in order of price (descending) |
| Entry conditions | Search items has been processed |
| Exit condition | List of items matching search term displayed |

|  |  |
| --- | --- |
| Use case name | Display error |
| Participating actors | None |
| Flow of events | 1. System displays error message if search term returns zero results or is invalid |
| Alternative flows | None |
| Entry conditions | Search items has been processed |
| Exit conditions | Error message displayed |

|  |  |
| --- | --- |
| Use case name | Browse category |
| Participating actors | App user |
| Flow of events | 1. User selects a category 2. System displays a list of the items in the selected category |
| Alternative flows | None |
| Entry conditions | User selects category from main activity |
| Exit conditions | List of items from selected activity displayed |

|  |  |
| --- | --- |
| Use case name | Browse top picks |
| Participating actors | App user |
| Flow of events | 1. Displays a list of items of top picks |
| Alternative flows | None |
| Entry conditions | None |
| Exit conditions | Displays top pick items, select an item from top pick (optional) |

|  |  |
| --- | --- |
| Use case name | View details |
| Participating actors | Data provider |
| Flow of events | 1. User selects an item from top picks 2. System displays item details |
| Alternative flows | 1a. User selects an item from category  1b. User selects an item from search list |
| Entry conditions | User selects item from top picks in main activity or item from the category list |
| Exit conditions | Item details displayed |

# System Design

A picture containing text

Description automatically generated

# GUI Mocks

List Activity

Graphical user interface

Description automatically generatedGraphical user interface, website

Description automatically generatedMain Activity

Graphical user interface

Description automatically generatedGraphical user interface, website

Description automatically generated

Details Activity

Search Activity

# Project Schedule:

Developer 1: Julia Shan; Developer 2: Manoj Kumaraguru

