

# COMPYSYS 302 PROJECT 2

TEAM 69

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*Personal Computer Part Chooser*

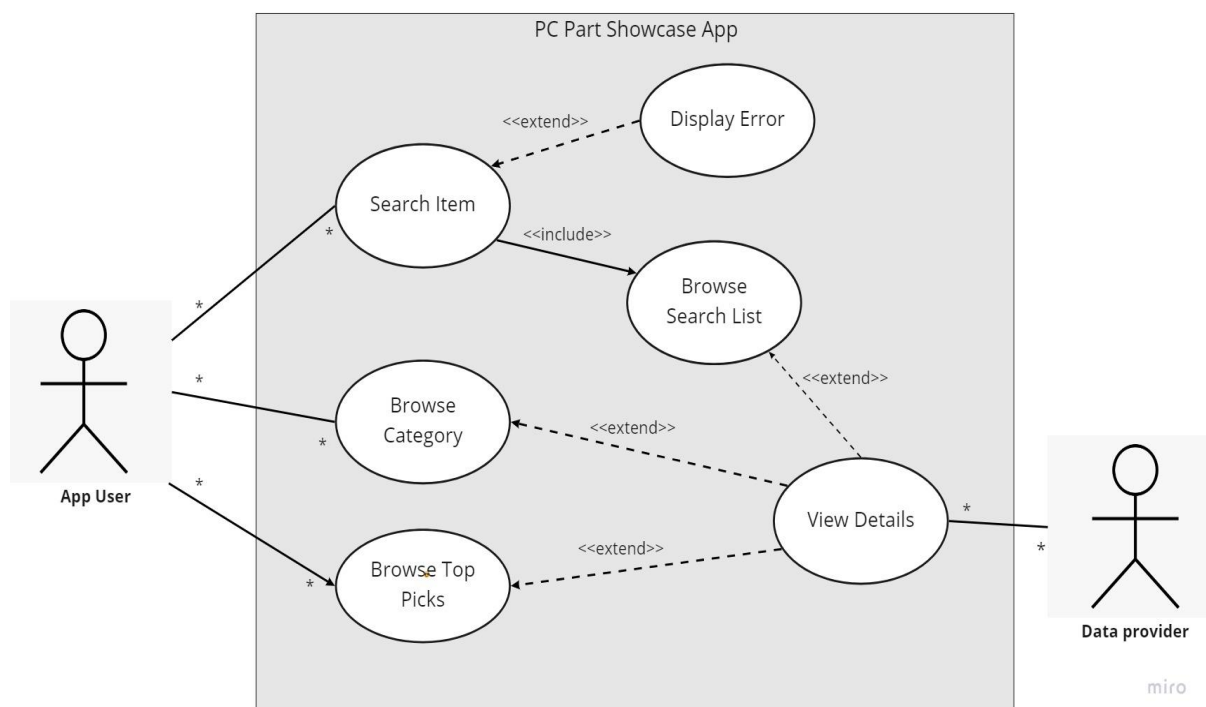
## Introduction

Our app is called PC<sup>2</sup>, 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



**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

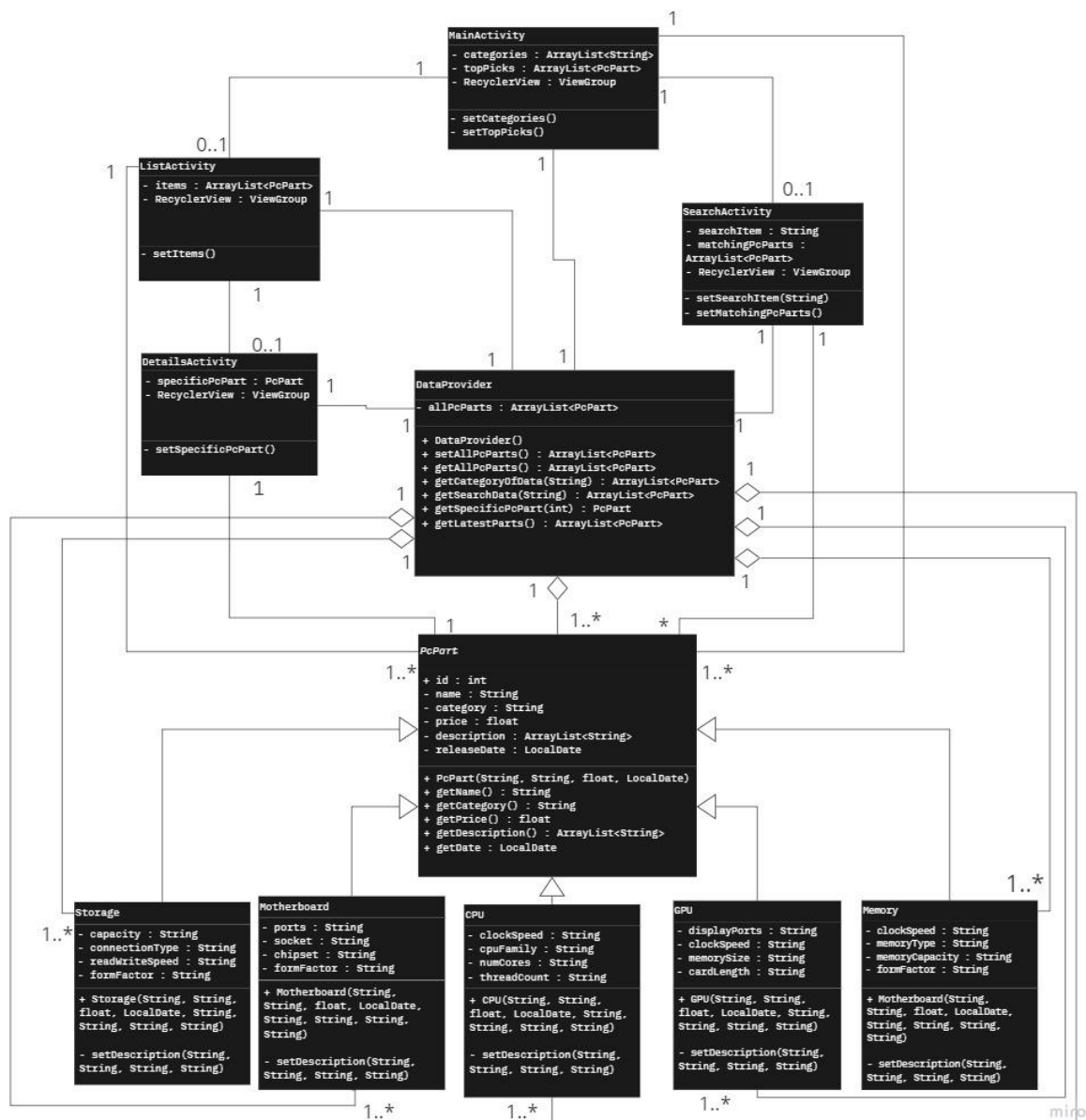
Use case name	Browse category
Participating actors	App user
Flow of events	1. User selects a category 2. System displays a list of the items in the selected category
Alternative flows	None
Entry conditions	User selects category from main activity
Exit conditions	List of items from selected activity displayed

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)

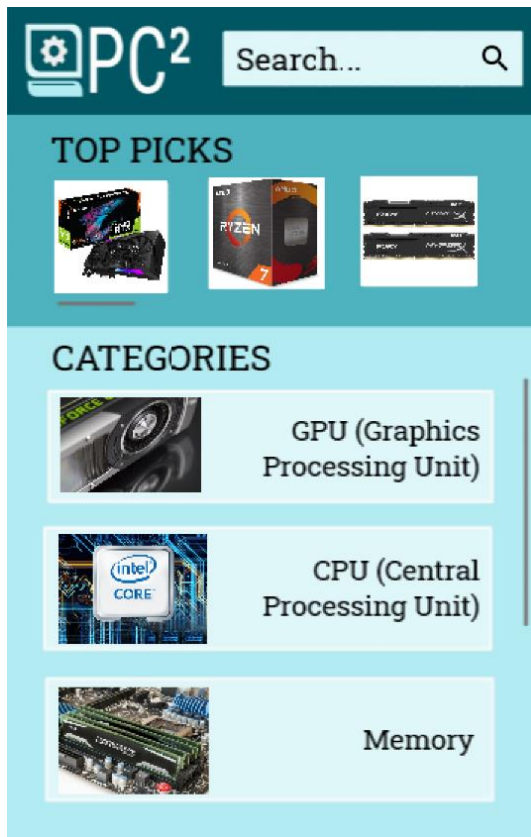
Use case name	View details
Participating actors	Data provider
Flow of events	1. User selects an item from top picks 2. System displays item details
Alternative flows	1a. User selects an item from category 1b. User selects an item from search list
Entry conditions	User selects item from top picks in main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

## System Design



## GUI Mocks

### Main Activity



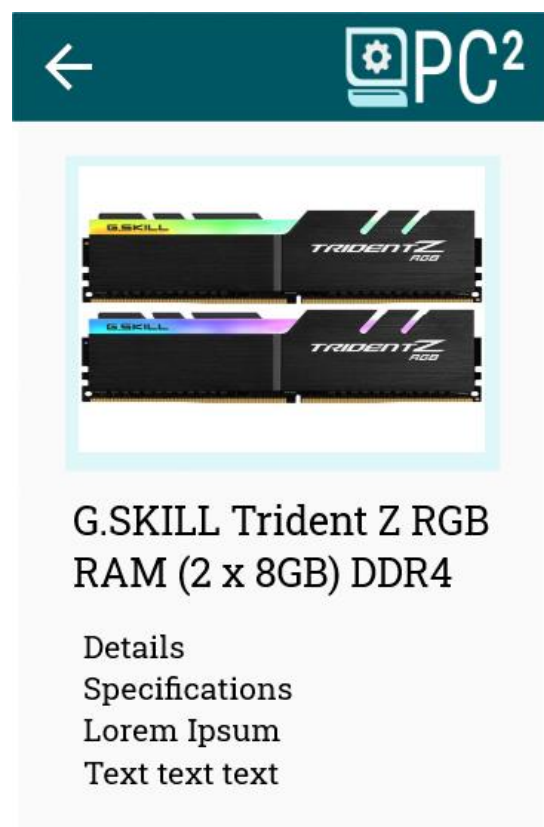
### List Activity



### Search Activity



### Details Activity



## Project Schedule:

Developer 1: Julia Shan; Developer 2: Manoj Kumaraguru

