IY4113 Milestone 2

Assessment Details	Please Complete All Details
Group	B
Module Title	Object Orientated Programming
Assessment Type	Coursework
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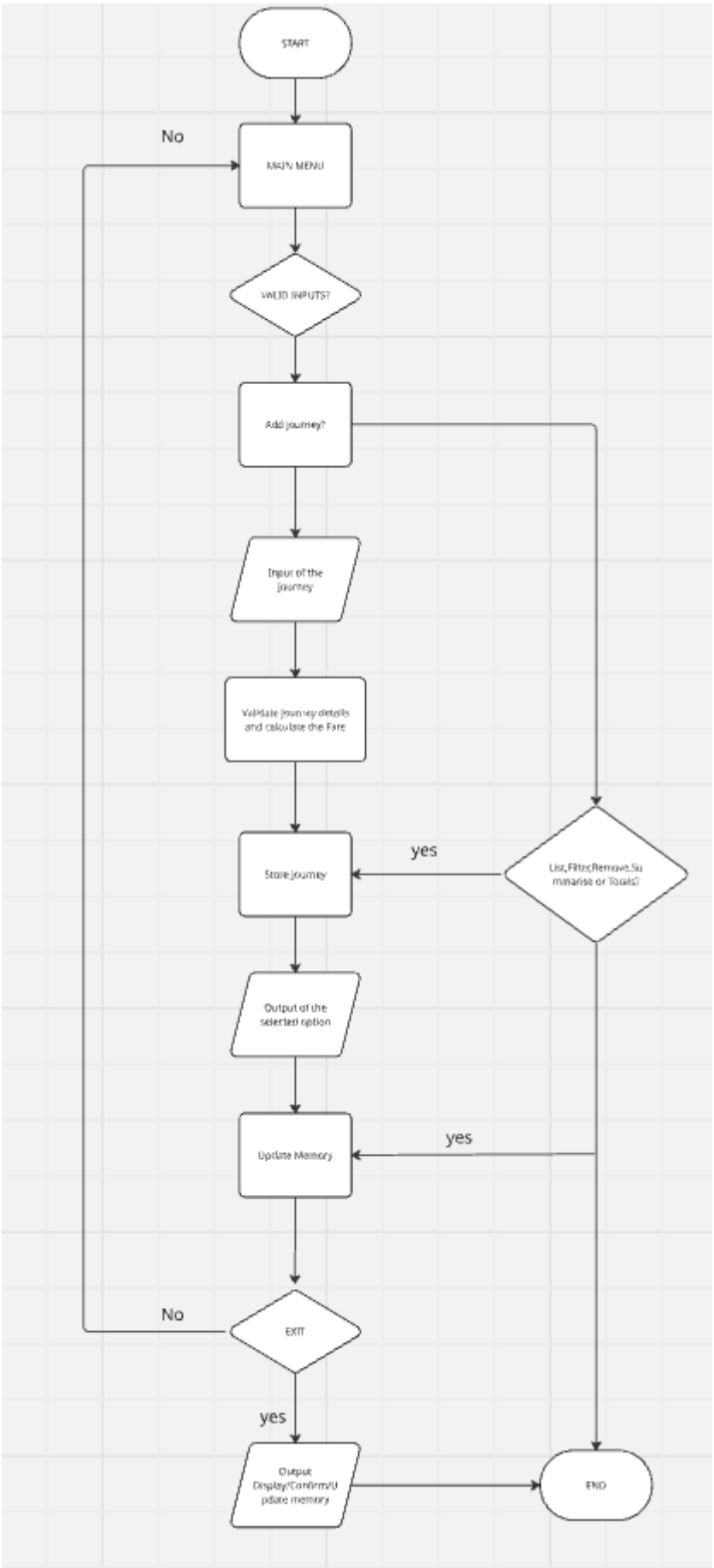
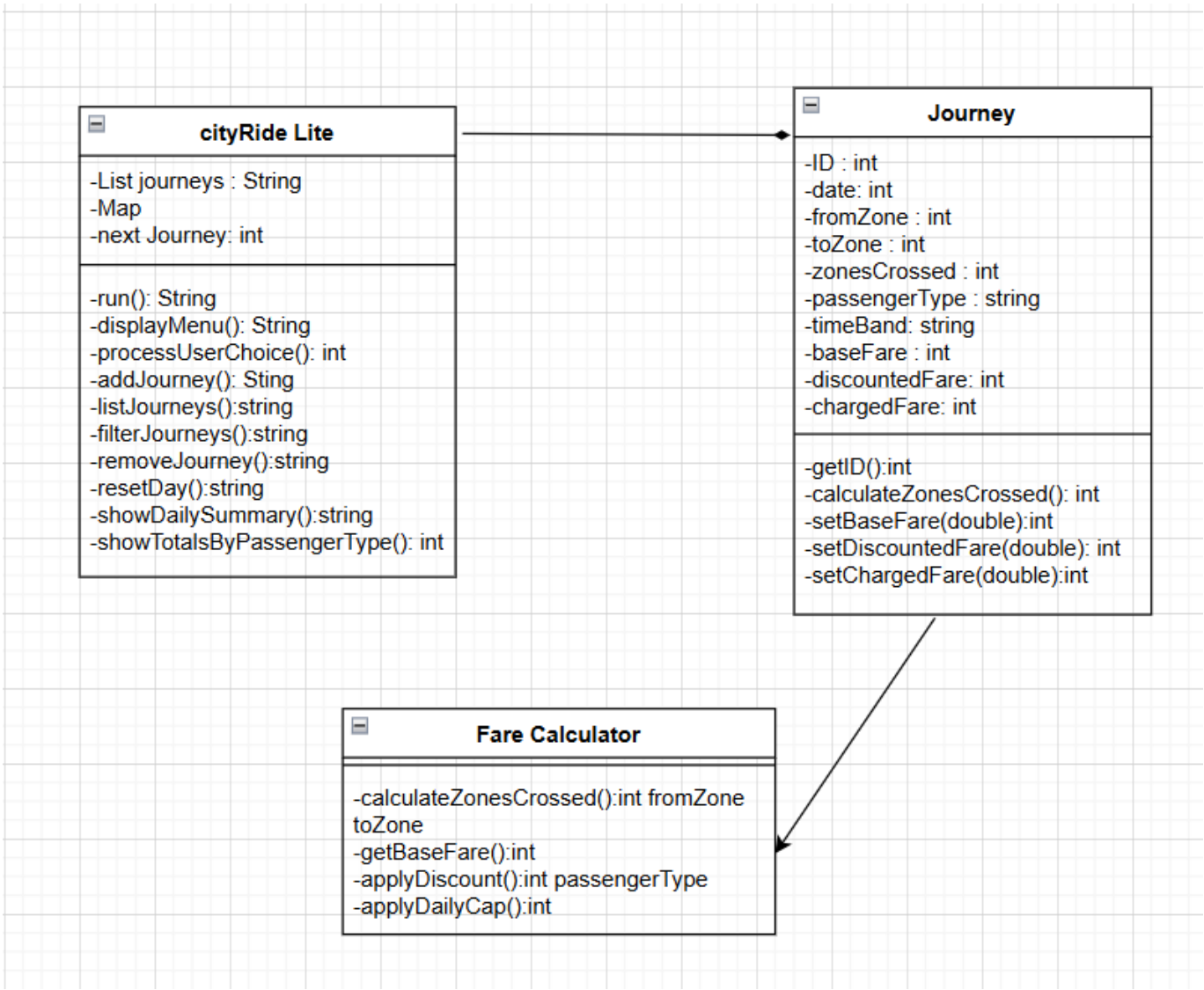
Date of Submission	01/02/26
Word Count	422

- [x] *I confirm that this assignment is my own work. Where I have referred to academic sources, I have provided in-text citations and included the sources in the final reference list.*
- [x] *Where I have used AI, I have cited and referenced appropriately.

Algorithm Design

- 
START
No
MAIN MENU
VALID INPUTS?
Add Journey?
Input of the journey
Validate journey details and calculate the Fare
Store journey
yes
List, Filter,Remove,Summarise or Totals?
Output of the selected option
Update Memory
yes
No
EXIT
yes
Output Display/Confirm/Update memory
END



Research

Name of program:Moovit Reference (link):https://en.wikipedia.org/wiki/Moovit What it does well:

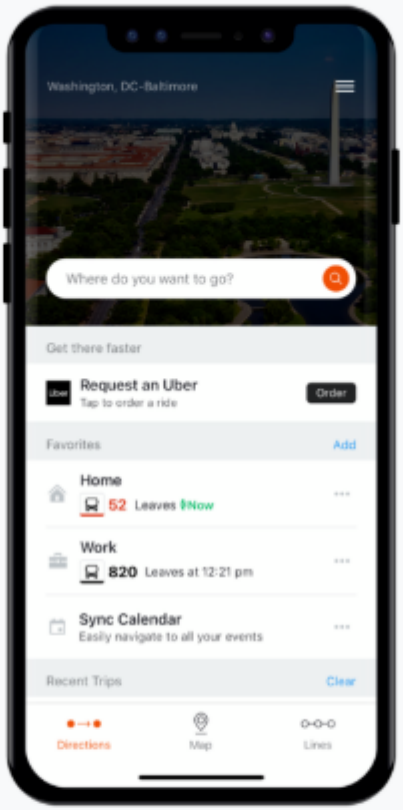
-Combines transit data from official and user provided sources for accuracy.

-Offers step by step navigation for journeys. What it does poorly:

-The interface is not very user friendly for simple, quick journey tracking. Key design ideas you could reuse:

-Journey filtering by different criteria (e.g. time or transit type). Screenshot (showing the interface/output):

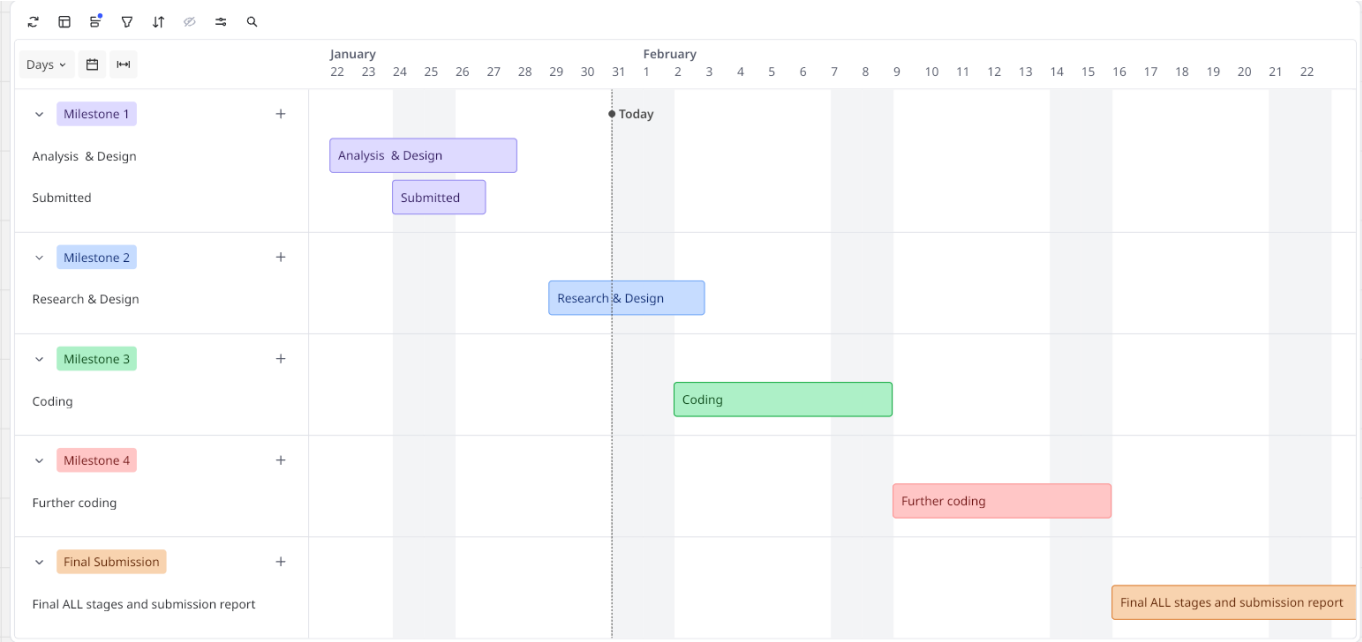
Moovit



Sample screenshot of Moovit for iPhone, ver 5.36

Original author	Moovit
Initial release	February 9, 2012; 13 years ago
Operating system	Android · iOS · Web browser

Updated Gantt Chart



Diary Entries

28/01/26- Today, I read and understood the instructions for milestone 2. I understood that i needed to develop the flowchart and research the similar programs. Finding out the similar programs was very challenging for me as at the start i didnt know where to find the similar programs. I seek help from chatgpt and i figured out that i can find similar programs on wikipedia.

29/01/26 - Today, i started working on the flowchart and completed it with the help of Milestone 1 Analysis. Moreover, i researched about the existing apps such as moovit and figured out how they handle journeys and navigation. I noted the features that are user friendly and could be applied to cityRide.

30/01/26 - Today, I started working on the class diagrams. It was challenging figuring out how to structure the fare calculations and relationships between them. But breaking down into smaller steps helped clarify it.

31/01/26 - Today, I updated my gantt chart and completed my flowchart diagram.

01/02/26 - Today, the submission went through all the work and checked it throughly and see if there are any amendments. Found out that the class diagrams need more practice in terms of relationships and understanding the attributes. Else for me, all other tasks were ok but i need to practice more on the class diagrams.