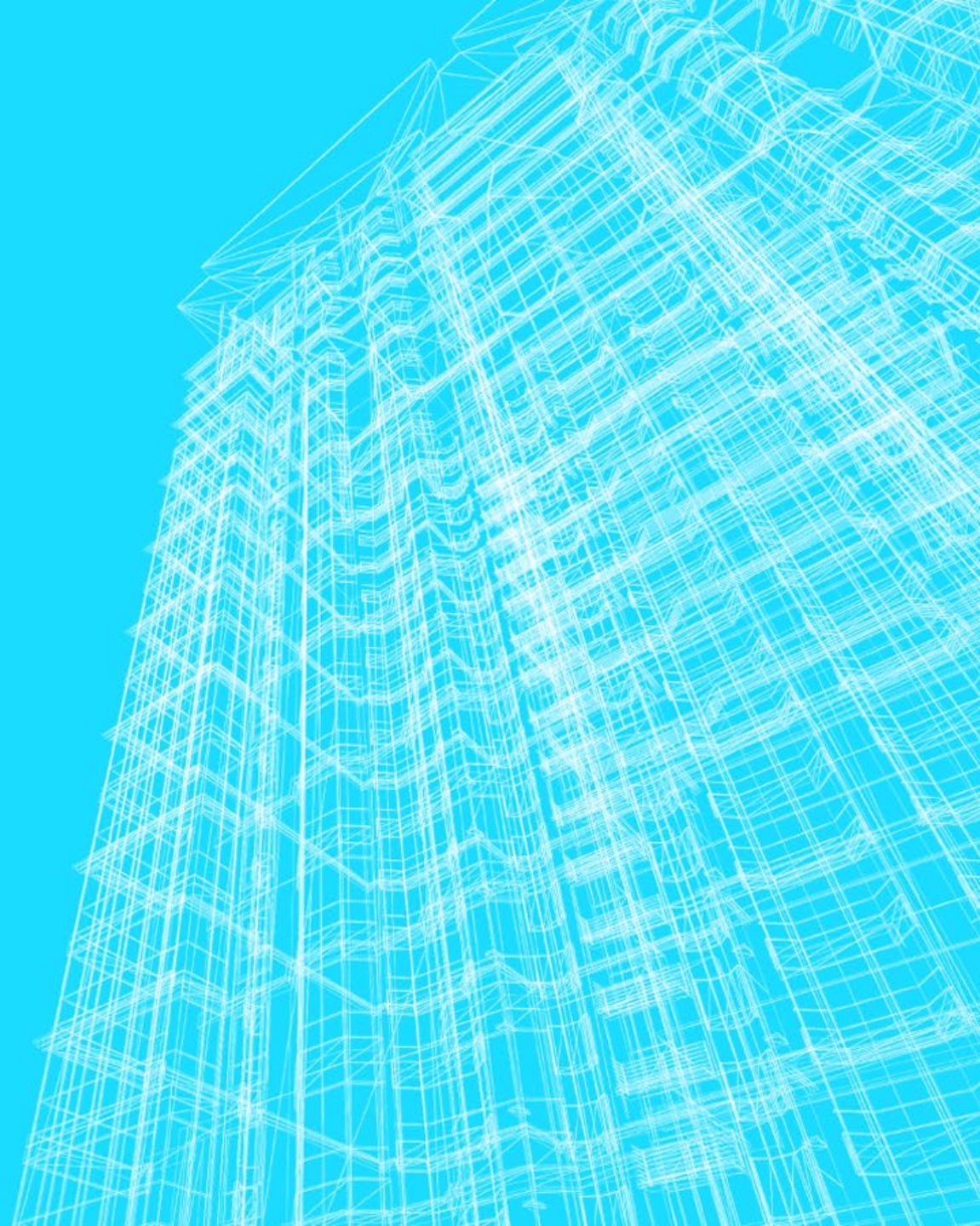


CSC 3402 PROJECT





PROJECT SPECIFICATION

Assembly language programming (Choose one of these):

- Smart home system
- Car rental reservation system

- Group work (1-4 in a group)
- To include:
 - Title of project
 - Group members (name and matric number)
 - Section no.
 - Comments for overall functions



PROJECT REQUIREMENTS

- Flowchart (Submit draft on 9/10/19)
- Source code (Submit on 20/12/19)
 - Using assembly language programming - MIPS instruction set
 - Using MARS IDE
- Presentation of project (9/12/2019-16/12/2019)



PROJECT SPECIFICATION

Smart home system

- At least 2 input sensors and 2 output actuators
 - Depending on the input sensor, the actuators will act accordingly – e.g. open a door, reducing the temperature of a room, etc.
- To authenticate the person(s) entering the house
- Communications are displayed on the IO window



PROJECT SPECIFICATION

Car rental reservation system

- 5 models of cars, with at least 4 cars for each model
- To authenticate the person entering the data
- Update and display for
 - reserved cars
 - collected cars
 - returned cars



TO CONSIDER

- ❖ Display options:
 - pop up window
 - IO column at the bottom
- ❖ Messages to user – type of input required from user
- ❖ Use of procedures/functions for optimisation
- ❖ Error handling
- ❖ End of program
- ❖ Debugging
- ❖ Testing



TO INCLUDE IN THE COMMENTS - DOCUMENTATION

- Title of project
- Group members (name and matric number)
- Section no.
- Comments for overall functions
- How each of the lines link to your flowchart