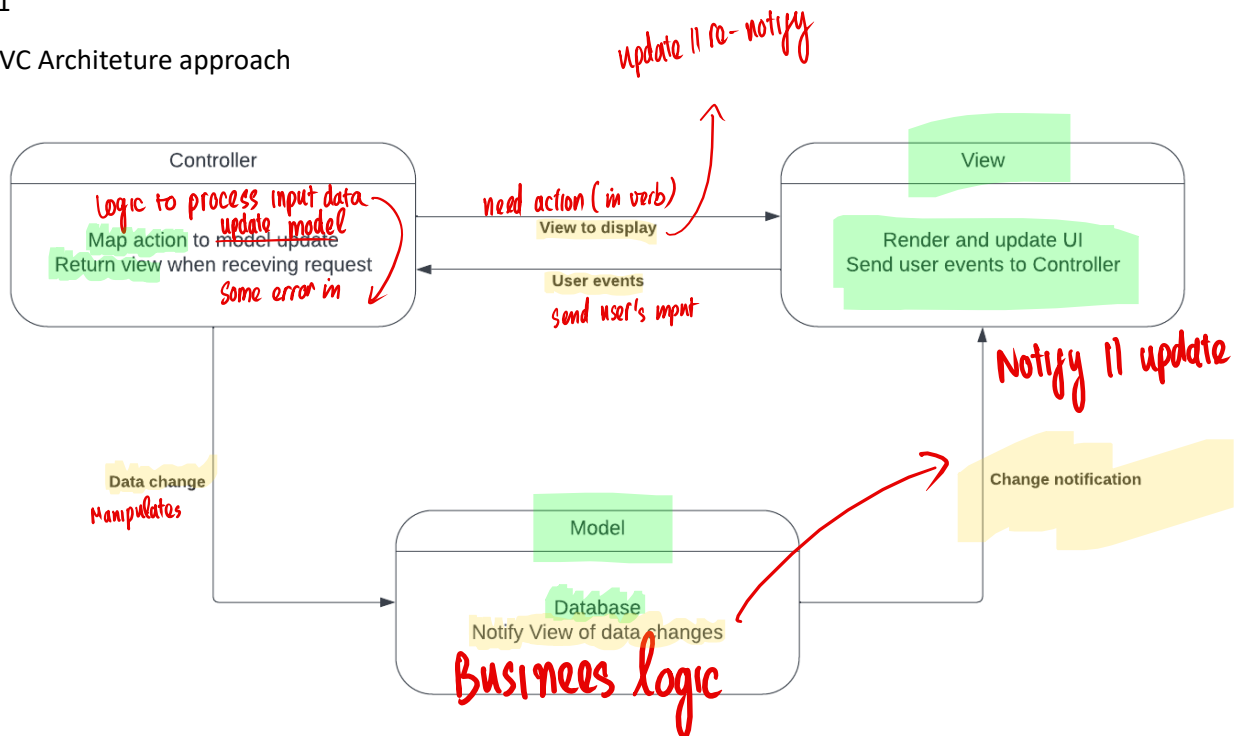


3.1

MVC Architecture approach



Description

View:

- Render the work calendar, employee, vehicles, MCPs, task assignment interface
- Send task assignment request from back officer to controller

Controller:

- Map officer action to database update
- Return view to notify back officer about the database update status

Model:

- Database consists of employee information, work schedule, vehicle information, MCPs information
- Provide method to notify changes made to update View

Expected module

Task assignment module:

- Used by back officer to assign tasks (vehicles, MCPs, schedule) to collector and janitor
- Input: Employee (collector or janitor) information, vehicle, MCPs, schedule
- Output: Employee work schedule is updated

Route planning module:

Used by back officer to assign route to vehicle

Input: Vehicle information, route

Output: Distance, fuel consumption, vehicle route is updated

Schedule view module:

Used by janitor and collector to view their tasks

Input: Employee information

Output: Display work schedule

Messenger module:

Used to send message to other employees

Input: Receiver address, message

Output: Update the receiver message view

