Course Code : CSE 404

Course Title : Software Engineering and ISD Laboratory

Project name : Bus ticket booking management system

Experiment no: 06

Experiment name: Application of MVC Model of bus ticket management system

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Mvc stands for

- **Model:** Responsible for handling database interaction with the controller (database layer)

  example: The model might have classes like Bus, Route, Schedule and Ticket along with methods to create, read, update and delete records for this entities in the database.

- **View:** Responsible for displaying contents of user. (presentation layer)

  For instance, the view might consist of web pages that display available bus routes, schedules and allow users to select and purchase tickets. When a user interacts with the UI, the view communicates with the controller to handle the user's requests.

- **Controller:** Responsible for acting as per user action (business logic layer).

  In the bus ticket management system, the controller

would handle tasks like processing user requests to search for available buses, book tickets or cancel bookings. It would use the model to retrieve relevant data and then pass the data to the appropriate view for rendering.

Considering struts or Spring or Hibernate frameworks.

- Model: Java Beans (database)
- View: HTML or JSP page
- Controller: Back end servlet (converted JSP's)

Name : Prokash Maitra

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Part : MVC Diagram

MVC Architecture:
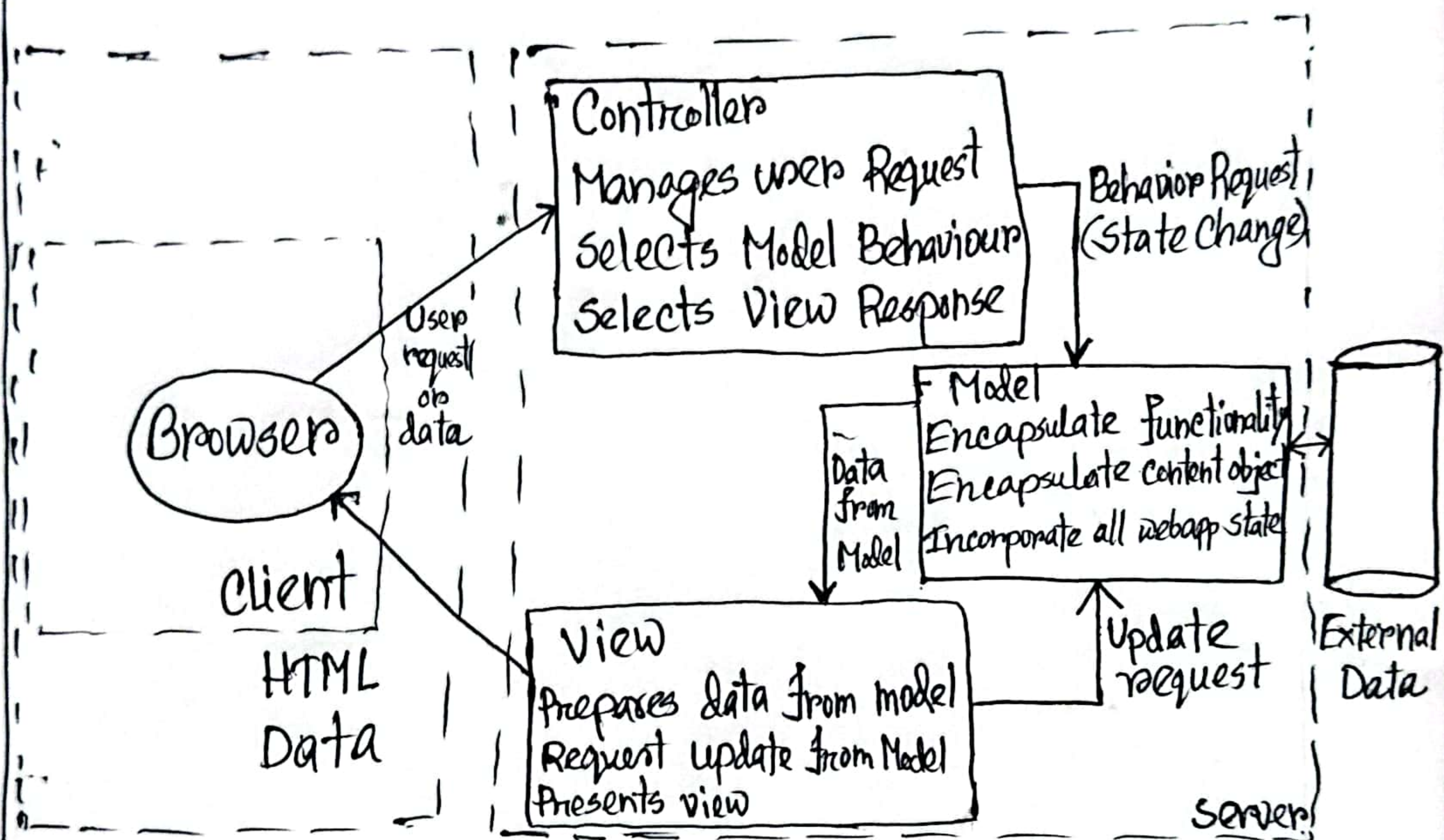
Model View Controller

Figure: The MVC architecture.

Tama Shil
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The drafted MVC for bus ticket booking system -

Controller
- User requests to search for available buses
- book tickets or cancel books

(Browser)

Client

View
Includes web pages that display -
- ticket
- Available routes
- Select and purchase tickets
- Select confirm or Delete.

Model
Include classes
- Bus — Route
- Schedule — Ticket
Methods like
- Create — Read
- Update
- Delete

External Data

Server

View - controller

Action

Model

Bus booking System

0.* — Booking Req — 0.1

0.* — User — 0.*

Admin   Customer