

ITCS212 - Web Programming

Lab 12: MVC

MUST READ:

- There is only 1 question consisting of Part A and Part B. **Only Part A** is required to be **submitted on MyCourses** following the naming convention
- You **must** submit Q1 within **today's class time (Bangkok time)**. You must notify LAs **via the SOS** sheet to grade your work.
- The SOS sheet will be opened by the instructor or LA (approximately the beginning of the lab). The student who wants to submit or ask questions shall put their name on the list. Do not put your name for reservation ahead of time.
- The SOS sheet are here: [\[sec1\]](#)[\[sec2\]](#)[\[sec3\]](#)
- **No late submission allowed**

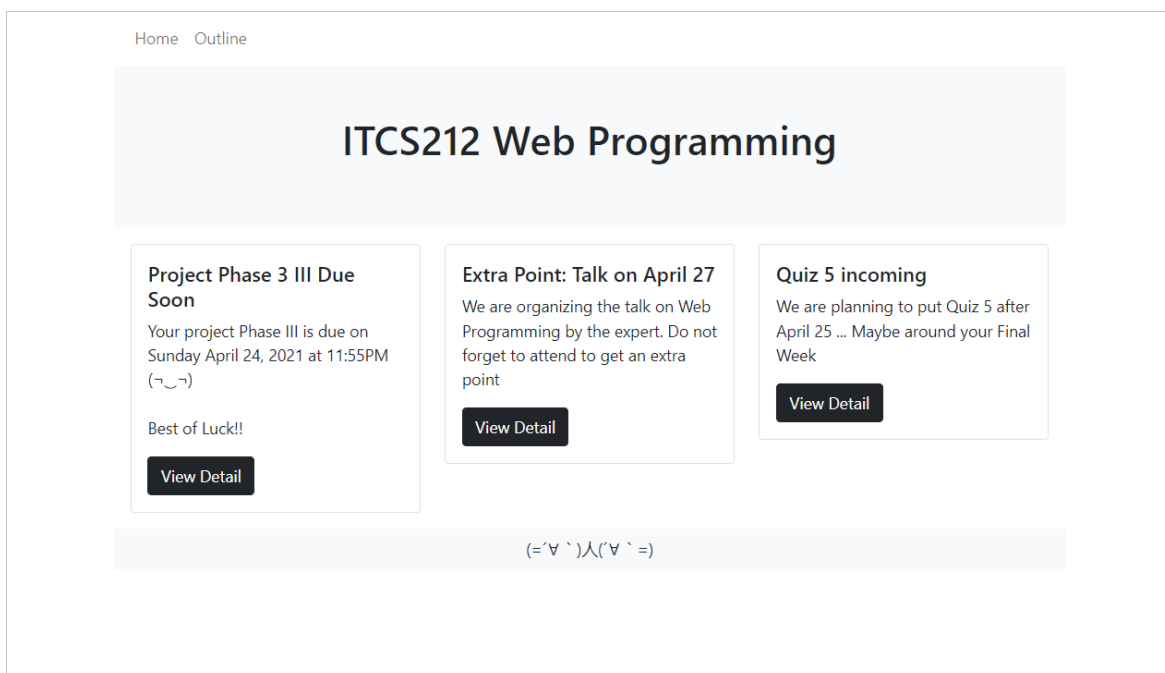
Q1-Part A: Playing with MVC: Download the given template file: q1.zip from MyCourses and make the Node.js project **runnable**. Your task is to create a module (Model, View, and Controller) for **displaying student information** from the given `students.json` (located in `/resources/data`)

1. Set up the project and understand the MVC architecture

After you extract the q1.zip and set up your project, the web site should be as followed:

localhost:8081/

(Home)



[Home](#)

[Outline](#)

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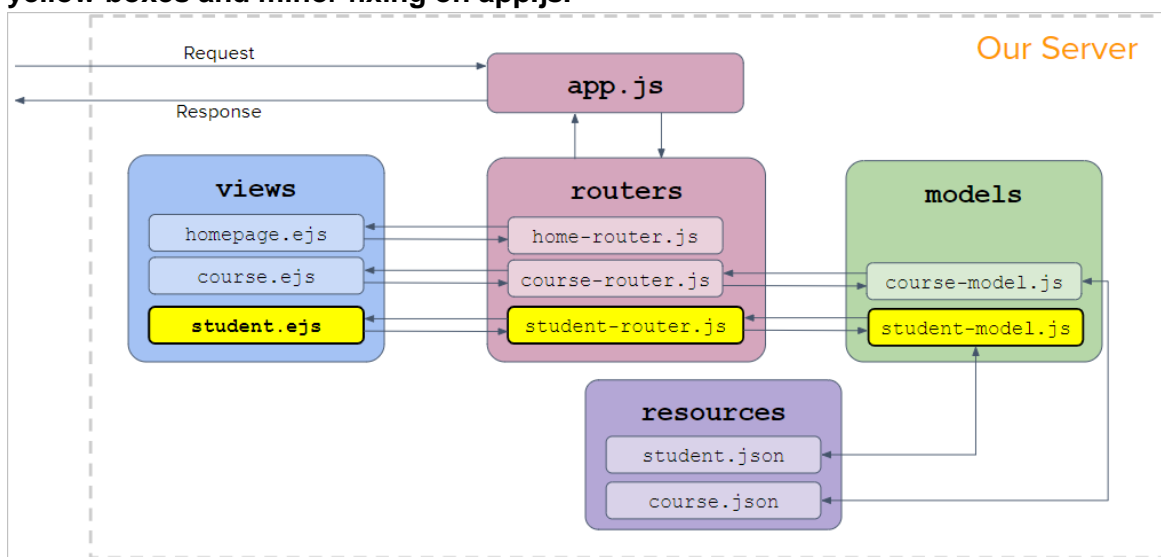
Outline

Topic	Module #	Type
HTML/HTML5	1	Client-side
CSS+Bootstrap	2	Client-side
JavaScript	3	Client-side
Node.js	4	Server-side
Web Service	5	Server-side
React	6	Client-side

Hint: you should at least understand what the interaction between model, view, and controller (router) are in `app.js`

2. Implement “Student” module

The overview of our MVC architecture are as follows: Your task is to implement the yellow boxes and minor fixing on app.js.



Hint: Start from `student-model.js` and import the JSON files (located in “Resource”). Then, modify `student-router.js` and finally show the students result in `student.ejs`

Add a simple “Student Info” in the navigation bar. Make sure that your navigation bar (Student Info) is linked to the correct path. When users go to click on the menu, it should go to “/student”. Your expected output should be like the following screen. The page shows the total number of students and the student info cards (see the following outputs)

Note: “20” should be a variable; not a fixed text

[Home](#) [Outline](#) [Student Info](#)

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List of 20 students

Student #1

Arnas Kent
Age: 17
e-mail: arnas.ken@mahidol.edu

Student #2

Sanaya Maldonado
Age: 19
e-mail: sanaya.mal@mahidol.edu

Student #3

Alara Mcarthur
Age: 22
e-mail: alara.mca@mahidol.edu

Student #4

Aayat Mack
Age: 17
e-mail: aayat.mac@mahidol.edu

Student #5

Kaya Bain
Age: 19
e-mail: kaya.bai@mahidol.edu

Student #6

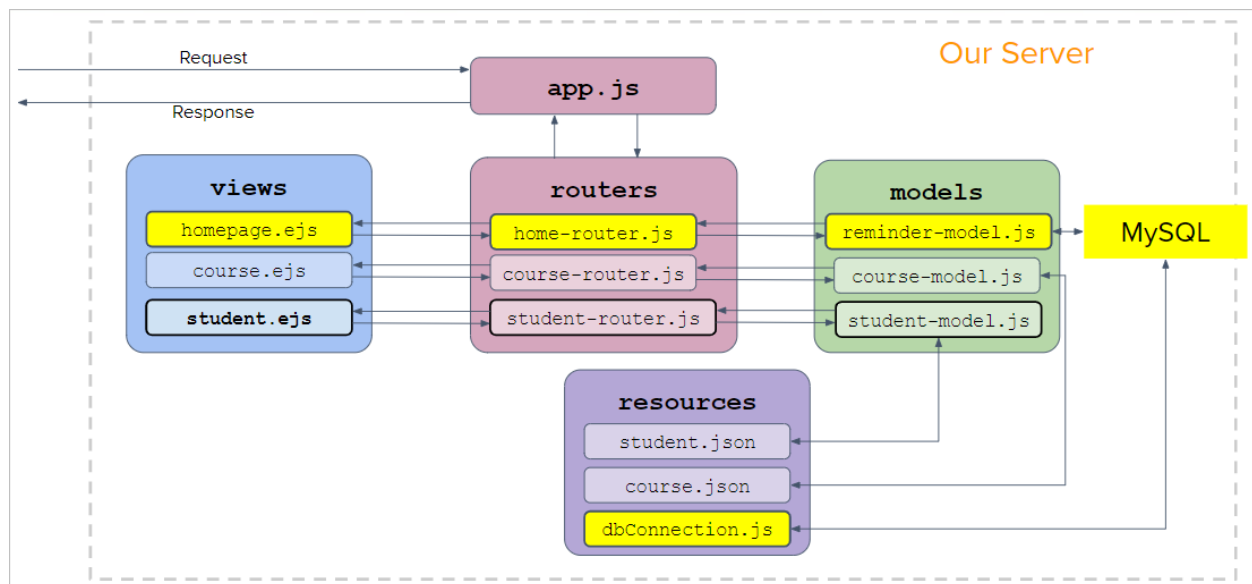
Glenda House
Age: 21
e-mail: glenda.hou@mahidol.edu

Zip your student.ejs, student-router.js, student-model.js and your app.js to one folder and rename it named as "L12-6X88XXX secY.zip" by class day via MyCourses (Note: xxx is your ID and Y is your section). Confirm your submission with LAs and instructors for this question.

Q1- Part B: Playing with MVC + DB: This question uses the codes from Q1. Your task is to modify the homepage to show the reminder feed from the database sorted by the most urgent due date. **Note:** You can use the SQL script: **q2.sql** to create the “Reminders” table in your DB.

Your task is highlighted in the yellow boxes in the MVC architecture:

- No need to modify `app.js`.
- Partially modify `homepage.ejs`
- Partially modify `home-router.js`
- Create `reminder-model.js`
- Create a DB (if not exist) with the given “Reminders” table
- Create `dbConnection.js` with **promise-mysql**



The output of the renewed homepage will be as followed:

Note: The result must be sorted by the earliest due date

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Project Phase III due soon!!

Your project Phase III is due on
Sunday April 24, 2021 at 11:55PM
Good Luck!!
Due date: 4/24/2022

[View Detail](#)

Quiz 5 incoming

We are planning to put Quiz 5 after
April 25 ... Maybe around your Final
Week
Due date: 4/25/2022

[View Detail](#)

Extra Point: Talk on April 27

We are organizing the talk on Web
Programming by the expert. Do not
forget to attend to get an extra
point
Due date: 4/27/2022

[View Detail](#)

Class Evaluation

We are welcome your feedback :)
Due date: 5/1/2022

[View Detail](#)

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No need to submit for Part B