

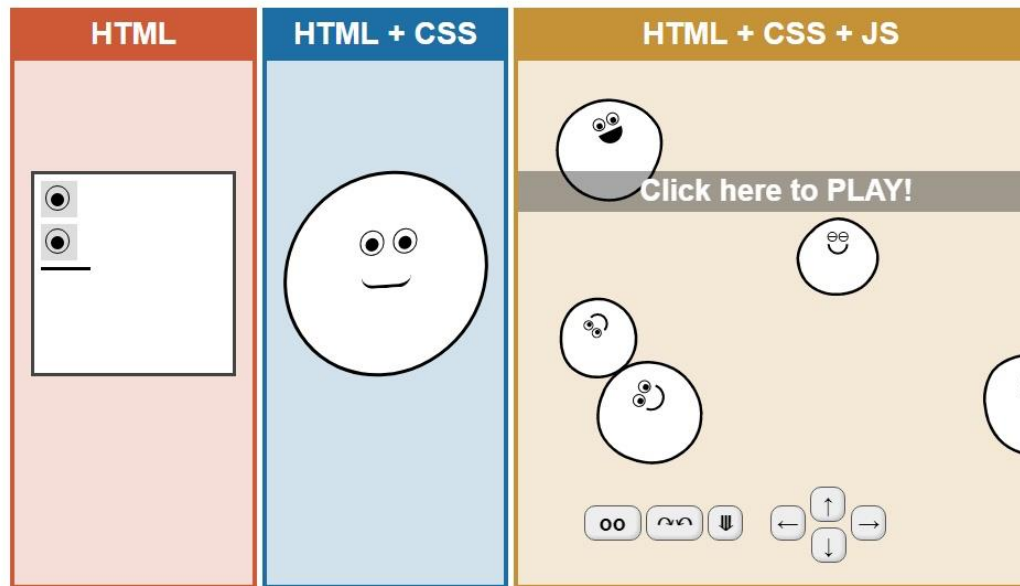
# COMP7980 – Dynamic Web and Mobile Programming

## COMP7270 – Web and Mobile Programming

### Chapter 0 Overview

Course Instructors: Dr. Liu Jinwei, Dr. Zhang Ce, and Mr. Jiang Jintian

# Web Development



# Responsive Web Design

- One design **fitting all screen sizes.**
- Content could be automatically re-arranged.



# HTML Form Request and Handling



## FORM ELEMENTS (FRONTEND HTML & CSS)

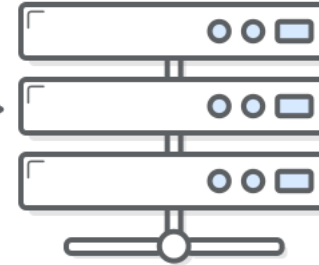
Log in with your email account

Email

Password

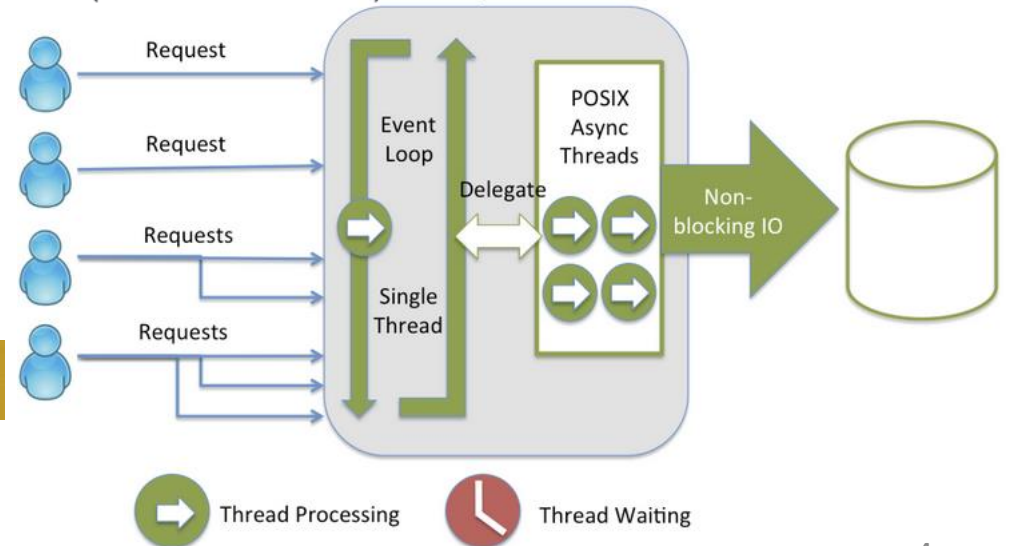
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## FORM PROCESSING (BACKEND SERVER)

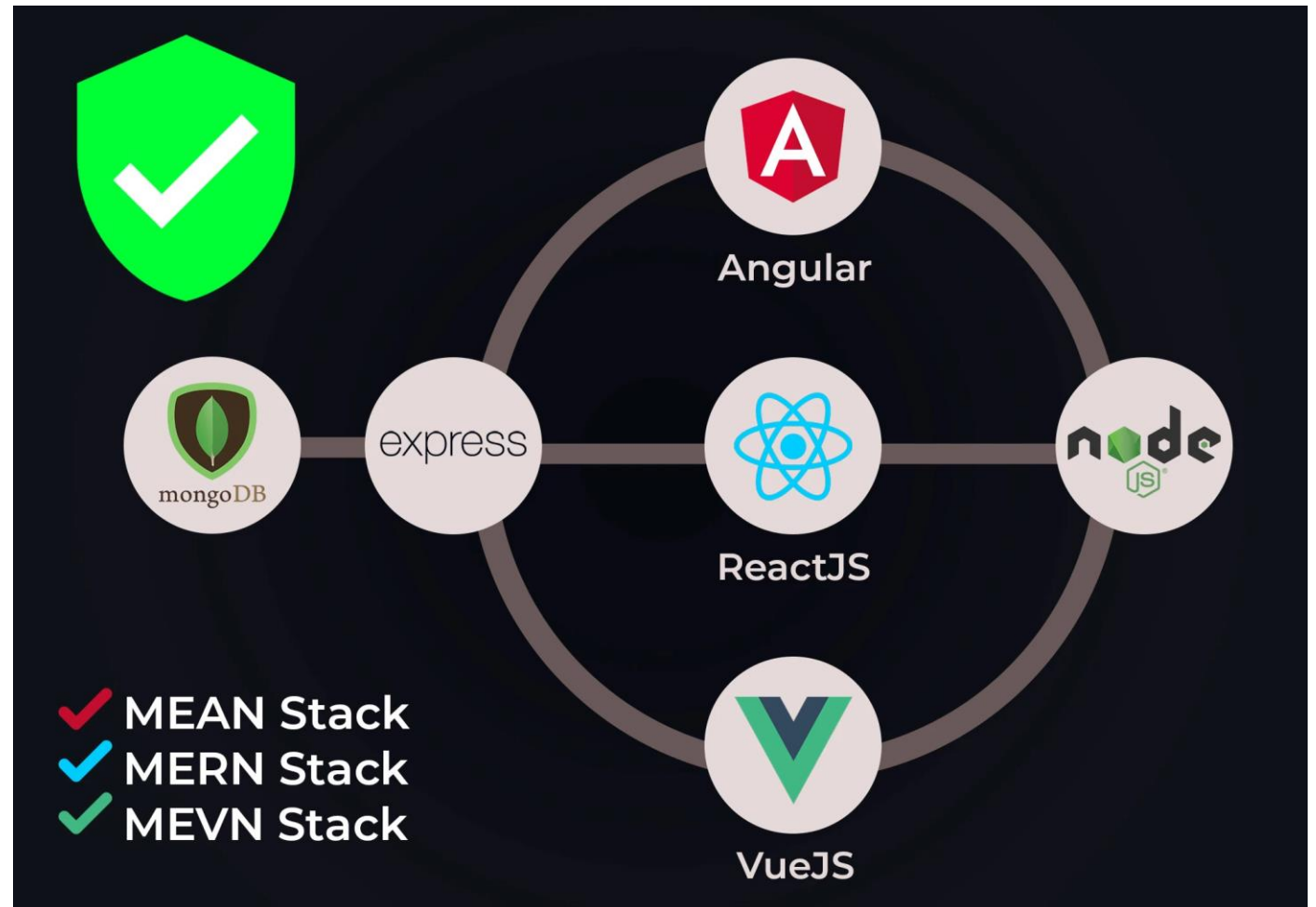
Node.js Server



Server-side scripting

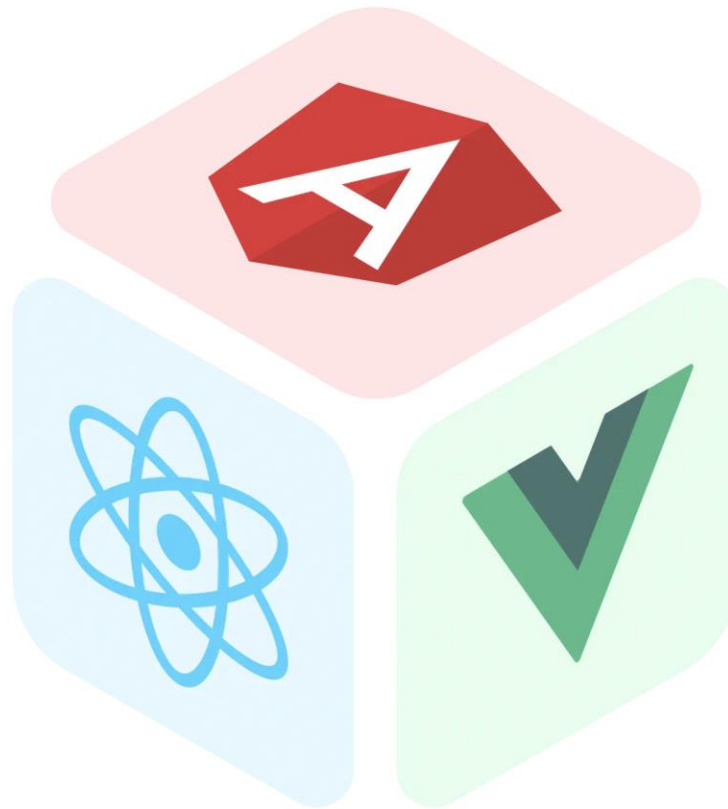
# MEAN Stack

- Full **JavaScript** stack
- Frontend technologies like **AngularJS**, or **Vue.js**
- No-SQL database with **MongoDB**



# Hybrid Mobile App Development

- **Ionic** Framework
- Adopting **Vue.js** in mobile app development



JS Agnostic

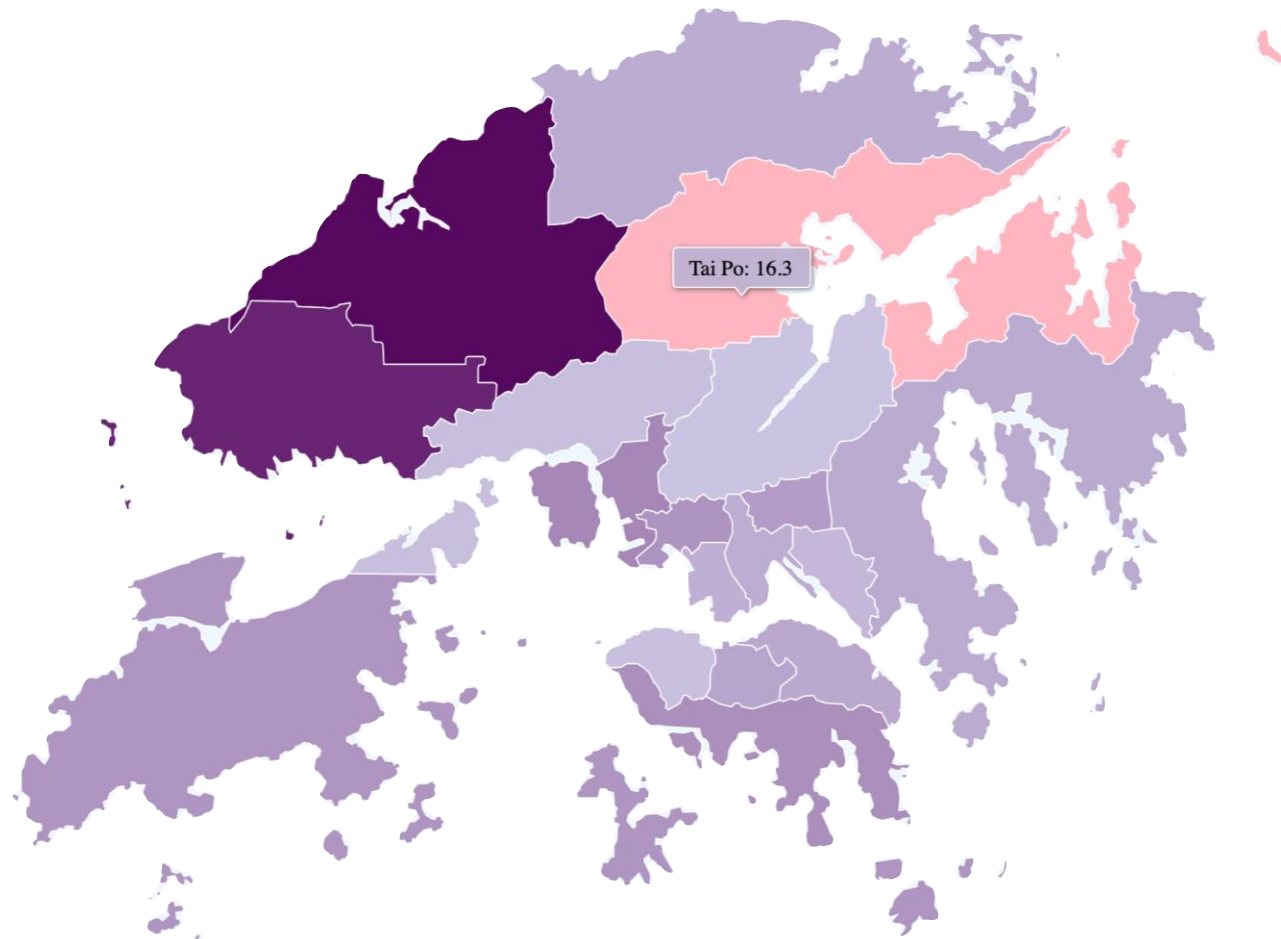
**Use the JavaScript tech you prefer.**

We don't make assumptions about the JS Frameworks you prefer to build with. That's why we engineered Ionic to integrate seamlessly with all best frontend frameworks, including Angular, React, Vue, or even no framework.

Get started:



# Amcharts



Hallyu that interests foreigners overseas



TV Drama: 33.3%

Film: 6.2%

K-POP: 53.4%

Others: 7.1%

# Instructors

## Class Instructor



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# Timetable

- Time of our class
  - Lectures and Labs (13 weeks)  
Jan. 15 – April. 16  
Wednesday 18:30 – 21:20

2025	Sun	Mon	Tue	Wed	Thu	Fri	Sat
January				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
1 The first day of January 29-31 Lunar New Year holidays							
February							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	
March							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
April							
			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
4 Ching Ming Festival 18-21 Easter holidays							

# Tentative Course Structure

- **Month 1**
  - Basic **HTML and CSS**
  - **Responsive web design** with **Bootstrap**.
  - Client side **JavaScript**

# Tentative Course Structure

- **Month 2**
  - Server-side scripting - **Express.js**
  - **Restful API** and **AJAX**
  - Working with **NoSQL database** and System deployment
  - **Data visualization** with **amCharts**.

# Tentative Course Structure

- **Month 3**

- **Reactive** front-end framework with **Vue.js**.
- Simple **data visualization** with **apexcharts**.
- Mobile app development with **ionic** + Vue.js.
- Usage of **pre-trained AI models**.

# Assessment

- To pass this course, you'll need to achieve
  - **30% of exam**
  - **35% of the overall score**

Exam	40%
Group Project	20%
Labs & Assignments	40%

# Plagiarism

- The University staunchly **upholds the principles of academic integrity**.
- As one part of HKBU's effort to prevent plagiarism, the software Turnitin is used to compare all assignments against multiple sources whenever appropriate.
- A report on each assignment is generated that includes a percentage similarity and links to specific similar sources.
- Turnitin does not conclusively prove whether or not an assignment is plagiarized – **the faculty will make this determination**.