Life is Possible - 生命教育 手機程式工作坊

PWA Apps workshop intro

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Aims

- 1. Enlighten students interested in STEM-related fields.
- 2. Able to code a simple website / apps / PWA.
- 3. Understand how coding works and critical thinking.

Perquisites

- 1. Basic knowledge of controlling computers (Windows / MacOS or Linux)
- 2. Interest in web technology / coding
- 3. Basic HTML / ICT / Coding knowledge is a plus (Not a must)

High level Outputs

- 1. Able to perform actions in coding IDE.
- 2. Basic coding skill in high level languages.
- 3. Learn server deployment process.
- 4. Edge knowledge of what is a programmer / software engineer.
- 5. Develop critical thinking and creativity.

Details Outputs

- 1. Able to use an IDE VS code to code.
- 2. Understanding what is coding and what are programmers duties.
- 3. Basic coding in high levels languages (JS / HTML / CSS).
- 4. Import bulma and other framework to enhance the UI / UX.
- 5. Using Github and Github Desktop for co-op and version control.
- 6. Using Vercel or Netlify to deploy PWA.

Details

Languages:

- Materials in English
- Tutoring / Talks in Cantonese

Period:

- Total 7 lectures + 3 project lectures (10 days)
- Every Saturday week day starting from 15/04/2023 in 1400 1600
- Lecture arrangement: 2 * 7 hours (1 hour lecture + 45 hour lab, 15 mins breaks)
- Project lectures arrangement: 2 * 3 hours team project time

Schedule

Period: 1400 - 1600 each saturday

Lessons	Title	Descriptions	Date
1	Introduce to Programming	Prepare lessons for future learning	15/04/2023
2	Introduce to HTML	HTML conecpts and coding	22/04/2023
3	Introduce to CSS and bulma	CSS conecpts and coding	29/04/2023
4	Introduce to JavaScript	JavaScript conecpts and coding	06/05/2023

Lessons	Title	Descriptions	Date
5	Interact JS in HTML	Using javascript in HTML	13/05/2023
6	Adv topic - Github, deployment, planning	Learn to use Github desktop, deployment tools and planning	20/05/2023
7	Project Week 1 (Buffer) / Bonus lecture	For tutoring and doing project	27/05/2023
8	Project Week 2	For tutoring and doing project	03/06/2023
9	Project Week 3	For tutoring and doing project	10/06/2023
10	Showcase	Demo project	17/06/2023

Project lectures arrangement

2 to 3 student will be in a group, and the following 3 weeks will be the project period. A PWA will be developed and deploy to Vercel for publics to access.

Project lectures arrangement

- Group members: 2 to 4 student Free grouping
- Period: 3 weeks (Mostly in lecture time => 6 hours)
- Presentations: Week 10
- Topics: 生命教育 / 珍惜生命 / 其他 Choose one

1. Each person should done at least 2 pages

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(2 ppl group = > 4 pages)
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$$(3 ppl group = > 6 pages)$$

- 2. The PWA must have a index.html for home pages and others pages for the remaining content.
- 3. For the PWA, you should design the web that assume most users are using iphone , android phone and ipad.
- 4. Student should **work on the same repository** instead of each student have their own repository.

- 5. Student should plan the website structure, theme, page, features and style before codings.
- 6. Mobile responsive is not a must but better have it for the sake of user experiences and UI.
- 7. Each group should be deploy the PWA in verce1
- 8. Gropus should ensure the deployed PWA works as expected (Valid links, workable functions, no dead images and href ect...)
- 9. Tutor / TA may help for deploying apps / web to Google play store.

Overview skills to learn

PWA skills

• HTML5, CSS, Javascript

Deployment / management skills

- Github / Guthub Desktop (Management)
- Vercel (Deployment)

Softs skills

- Communications & teamwork
- Critical thinking & logical thinking

Scoring list

Score by tutors and TA's
Total 100 + 10 Bonus (Max 100)

- 1. Content (25%)
- 2. Creative / Design (25%)
- 3. Team-work & communications (25%)
- 4. Tech Skills (15%)
- 5. Presentations (10%)
- 6. Bonus (10% Bonus, Max 10%)

1. Content (25%)

- Great ideas and topics (10% 0%)
- Interesting / Interactive with regarding content (15% 0%)

2. Creative / Design (25%)

- Great UI layout / Creative ideas (10% 0%)
- Great UX design (10% 0%)
- With proper images / video / gif / icon usgae (5% 0%)

3. Team-work & communications (25%)

- Each person should done at least 2 pages (5%)
- Whole group finished the project (10% 0%)
- Great team atmosphere (10% 0%)

4. Tech Skills (15%)

- Using Github and Github desktop / git in the project (5% / 0%)
- Using Vercel to deploy the project (5% / 0%)
- Using all javascript / html / CSS in the project (5% / 0%)

5. Presentations (10%)

- All teammate present the regarding pages (5%)
- Great presentations performances (5% 0%)

6. Bonus (10% Bonus, Max 10%)

- Using tech that did not cover in the lecture (e.g AOC, animate.css, sweet alert2 ...)
 (0 10 %)
- Adapt other framework in the project (0 10 %)

Score rank

We will give the top 2 groups several award for encouragement.

Output demo

See project/demo-project/README.md for more info.

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End

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