

**BSc (Hons) Information Technology**

**UFCFFC-30-3 Information Technology Project**

**Proposal Form**

Note: The proposal should be approximately 1,000 words.

Submission date and time: **\_\_\_\_\_\_\_\_\_\_\_\_\_**   
(Submit the soft copy of the proposal to Moodle.)

**1. Your Details**

| Name: Liu Chak Tin  Student ID: 227212713  Supervisor: Jackie Kwong |
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**2. Project Title**

| Foreign people language learner |
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**3. Background**

| *Describe the purpose / need / rationale for the project. Explain what problems you are trying to solve, and why these problems are worth solving.*  [Situation] In the past, foreigners started to learn another language from scratch. They might need to do a lot of research, and some starter books. Although the illustrations of words are provided, they might forget those words and point out those relative pictures.  [Problem]  The following project is estimated to assist those foreigners to scan the specific item and , in front of the web camera from the laptop.  [Need] |
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**4. Objectives**

| *State explicitly the objectives the project is aiming to achieve*  *AND*  *State clearly and precisely how you will measure their achievement.*   * To detect and identify the object item which put in front of the web camera * To build up foreign people vocabulary skills and have a better learning * To |
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**5. Stakeholders**

| *Who are the potential client and users of your product and how you are going to demonstrate/justify that your product fulfils their needs?*    [User]  Foreigner people who learn different language  [What reasons leading them to use this item?]  [Need? Characteristics?]  They may have difficulties in developing their language learning skills and speaking skills. This project might improve their strategies and boost up their progress by using object detection concepts.  The project may probably show the picture provided or photo captured. |
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**6. Project Deliverables**

| *These are the products, information, reports, etc that will be delivered to the user at the end of the project. Description of the deliverable should be included.*   * To * To * To |
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**7. Resources**

| *List any resources that you will require to complete the project, e.g. access to people or data, hardware and software, other tools and technology.*  Hardware:  Webcam  Microphone (If need)  Software:  Python ［Module］：  Numpy  OpenCV  MediaPipe  IDE Editor: Visual Studio Code  Docker |
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**8. References**

| *References to books, journals and other information sources that you have used to research the proposal (in Harvard referencing format).* |
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**9. Project Planning**

| *Attach a Gannt Chart that shows how you plan to carry out the work.* |
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