

Ollscoil
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an Atlantaigh

Atlantic
Technological
University

B.Sc. (Hons) in Software Development
Applied Project & Minor Dissertation

Project Proposal

Each student must complete the following form and submit it to their supervisor for consideration. Once your supervisor has signed-off on the proposal, you must submit the document for consideration using Moodle.

1. **Student Name:**
2. **Supervisor Name:**
3. **Project Name:**

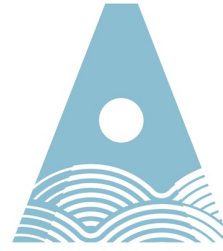
4. **Project Context**

Describe the context of the problem domain here. Explain what you are proposing to do and your rationale for doing it. Explain why the problem domain is of interest.

For our project, We are making a fitness app, using Ionic and angular. This will be available on Android (and possibly IOS). The main application of the of the app will be using a camera to correct posing on squatting or yoga poses. It helps people correct their structure and correct them. A secondary application to work on the would be calculating the distance people run but has yet to be determined in the time frame.

Our project will be broken into three parts, Due doing dev-ops, Pedro doing front-end, and I shall be focusing on coding the methods.

It is interesting to me to work with OpenCV computer vision to enable a wide range of applications and its large array of tools, like motion tracking, object detection and possibly interactive code.



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5. Project Objectives

Write out the key objectives of the project as bullet points. Each objective should be clear, realisable and measurable / testable, i.e. the success of your project is determined by the degree to which these are realised.

The key objectives is :

- Learning more into OpenCV
- Creating real life test casing
- Learning use of Agile methods
- Creating camera vision software
- Using python more efficiently
- Motion tracking and artificial recognition

6. Technologies & System Architecture

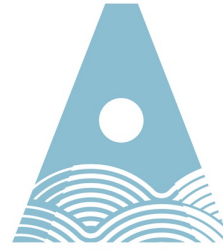
Explain the technologies you are going to use and why you selected them. These include the programming languages, operating systems, presentation and storage technologies and any cloud / 3rd party libraries / services that you intend to use.

Architecture:

- Ionic Angular
- MongoDB

Technologies:

- Selenium
- Python
- OpenCV
- React - React motion/tailwind
- JavaScript/TypeScript



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7. Schedule of Work

Using a Gantt chart or tabular format, outline your schedule of work for all the key project activities, deliverables and dates.