

The Capstone Projects Program

Thank you for proposing a project for our Capstone Projects Program. Projects like yours offer our students an invaluable learning experience. We appreciate the opportunity you have provided and the time you have chosen to commit to the professional development of our students.

The Capstone Projects Program is run through the Department of Computer Science and Software Engineering through the Faculty of Science, Engineering and Technology at Swinburne University, located in Hawthorn. It includes different Capstone Project topics, each offering students a professional development learning opportunity.

This proposal form provides Swinburne University to begin the process involved in hosting a Capstone Project.

Purpose of this form

Use this document to provide relevant project details about your organization and your project proposal. After providing details send the proposal back to the faculty Capstone Projects Coordinator (email provided at the end of this document).

Note:

Please use simple text formatting as the data within this document is exported into our Projects database and formatting is lost during the export process, and only enter one project per proposal form and save as a Word document.

Overview of this Proposal

General Purpose

The purpose of this exercise is to provide an educational opportunity for the Student(s) to obtain real-world experience as part of their course of study.

The Contracting Party or Host Organisation wishes to support the skills development of the Students by providing details of their project to Swinburne University and agrees to provide the Students with the opportunity to undertake the Project.

All parties acknowledge that Project details may vary as the skills of the Student(s) are assessed or the Project requirements change.

Guarantees

Neither Swinburne University, nor the Student(s), provides any guarantee in relation to the quality, originality, operability, delivery or any other aspect of any work undertaken, or material produced by the Student(s) as part of the Project.

Offer of a Proof of Concept or Prototype

Swinburne University will provide a “proof of concept” or “prototype” for the client. It is not able to provide a commercially ready product.

Client Relationship with Swinburne University

The relationship between the parties is voluntary and involves no payment or only nominal work experience payments within regulatory requirements.

Intellectual Property

Swinburne University will arrange for the Students to assign any Intellectual Property in the Projects to Swinburne University. Swinburne University will then assign the Project IP to the Contracting Party or Host Organisation.

Project Obligations and Student Project Agreement

The Contracting Party, or Host Organisation, and Swinburne University agree to perform their obligations in accordance with the terms and conditions of the STUDENT PROJECT AGREEMENT.

The STUDENT PROJECT AGREEMENT will be issued to the Contracting Party or Host Organisation once their Project has been accepted by Swinburne University and students have been assigned to the project.

Please continue to the next section of the proposal form. There are 3 sections to be completed. When completed, email this Capstone Proposal as a Word document to the Capstone Projects Coordinator, at the Department of Computer Science and Software Electrical Engineering, Swinburne University

email: dle1@swin.edu.au

Schedule A - Proposal Details

Part 1 – Organisation Details

CLIENT/ORGANISATION

Name: Greeliving Learning Hub

Brief description of Greeliving Learning Hub

Greeliving Learning Hub is a platform that connects learning needs and global job opportunities, helping individuals continuously enhance their knowledge, skills, and expand their network to create a prosperous and fulfilling life, whether they are in Vietnam or any other country in the world.

Greeliving will recognize and connect the study and career needs of each individual with global educational institutions and businesses, fostering a lifelong learning and development process.

In addition, Greeliving develops training programs aimed at equipping individuals with the essential knowledge and skills for their careers and lives, both before and during their transition into the job market in a new country. Furthermore, Greeliving facilitates job placement during and after the completion of their educational programs.

Address

P2 – 12A Eastern Park 2 Thach Ban, Long Bien Street, Ha Noi

Website

<https://greeliving.edu.vn/>

Schedule A - Proposal Details

Part 2 – Contact Details

DIRECT CONTACT DETAILS

Name: Ms Nguyen Phung Minh Hang

Title: Project Manager

Work Phone: 091 2052999

Mobile: 091 2052999

Email: duchangnhim@gmail.com

CLIENT/ORGANISATION PROJECT SUPERVISOR

Name

*Who, from your Organisation, will be supervising the Project?
Please allocate only one person to begin with.*

Title: Project Manager

Department: Board of Director

Work Phone: 091 2052999

Mobile: 091 2052999

Email: duchangnhim@gmail.com

Schedule A - Proposal Details

Part 3 – Project Details

PROJECT DETAILS

Project Title: [Web-based Recruitment System](#)

Referred by
Swinburne Vietnam Hackathon (2023)

Estimated Project Length
1 semester (12 weeks)

Project Description

Existing Website:

The existing website of Greeliving can be viewed at <https://greeliving.edu.vn/> . The existing system will provide customers with hands-on courses with international certificates and overseas job opportunities. The site presently lacks a backend system with Content Management System (CMS) for managing the website by different users. It also needs a database management system to use live data for job listings and candidate profiles.

Vision of the system:

Gleeliving plans to have a dynamic website which would truly reflect our proposed vision, be a seamless recruiting platform, bridging candidates and employers. More details are given in this document.

Project Specialisations Area

Web Development & Design: This specialization focuses on the front-end and back-end development of websites. Students in this area work on creating the visual layout, user interface, and functionality of websites. They should be proficient in HTML, CSS, JavaScript, and web design principles.

Database Design: Specializing in database design involves creating the database structure, optimizing data storage, and ensuring efficient data retrieval. Skills in SQL and database management systems (e.g., MySQL, PostgreSQL) are essential.

Web Security: In this specialization, students focus on securing websites against various online threats, such as hacking, data breaches, and malware. They should be knowledgeable about security best practices and technologies.

E-Commerce Development: Specializing in e-commerce involves creating online stores and payment systems. Students in this area need to understand online payment gateways, shopping cart functionality, and user authentication.

UI/UX Design: This specialization is about creating visually appealing and user-friendly website interfaces. Students should have skills in user research, wireframing, prototyping, and design tools like Adobe XD or Figma.

Search Engine Optimization (SEO): Students in this area work on optimizing websites to improve their visibility in search engine results. Knowledge of SEO techniques, keyword research, and content optimization is crucial.

Responsive Web Design: Specializing in responsive design involves ensuring that websites adapt and function well on various screen sizes and devices. Students need to be proficient in CSS media queries and responsive design principles.

Web Analytics: This specialization focuses on implementing analytics tools (e.g., Google Analytics) to track website traffic and user behavior. Students analyze data to make informed decisions for website improvement.

Internationalization (i18n) and Localization (L10n): Specializing in i18n and L10n involves making websites accessible and culturally relevant to Vietnamese candidates and Australian employers.

Project Skills

Business Analysis: Analyzing business processes, identifying needs, and defining project requirements to align technology solutions with business goals.

Systems Analysis: Evaluating and designing system architecture, data structures, and workflows to meet project objectives.

Project Management: Planning, organizing, and overseeing project activities, including scheduling, resource allocation, and risk management.

Web Development & Design: Writing, testing, and debugging code for responsive web applications.

Database Design: Designing, implementing, and managing databases to store and retrieve project-related data efficiently.

User Interface (UI) Design: Creating visually appealing and user-friendly interfaces for websites, applications, or software.

User Experience (UX) Design: Focusing on user interactions and designing intuitive and efficient user experiences.

Network Security: Implementing security measures to protect data and systems from cyber threats and vulnerabilities.

Project Environment

Hardware/Software/ Programming Languages (e.g. Android; IOS; C++; HTML; CSS; Java; SQL; NoSQL; AngularJS; ReactJS; XML, Windows etc.)

Development on **MERN Stack** comprises 4 technologies namely: MongoDB, Express, React and Node.js. MySQL?????

Dual Language Compatible (English and Vietnamese).

Should be responsive and to work well on all devices (Desktop, Laptop, Smartphones, Tablets etc.) and popular Operating Systems (eg: Windows, Linux, Sailfish etc.)

Websites should follow W3C Guidelines.

Hosting and Backup: Who decides the hosting platform? The client or developers?

a. Cloud-based platforms with load balancing configuration must be implemented so that the website remains up even in peak time, such as result declaration.

b. Daily backup facility (In addition to cloud-based backup by Service Provider, there should be a facility for user-friendly backup feature where the Administrator can take backup / restore from a local machine).

Research Component

Where applicable use this section to state topic of research relevant to this project. This may be part of the project or the entire project. If nothing state N/A.

Technology and Platform

1. <https://greeliving.edu.vn/>
2. https://gojob.com/en_us/

Content Research

1. Vocational Courses:
 - <https://www.huongnghiepau.com/>
 - <https://www.hotcoursesabroad.com/>
2. Job Search:
 - <https://www.topcv.vn/viec-lam>
 - <https://www.vietnamworks.com/>
 - <https://careerbuilder.vn/>

Additional Information

Below are brief descriptions of the initial requirements of the proposed system.

Business to Consumer (B2C)

The system will provide customers with hands-on courses with international certificates and overseas job opportunities. We want **at least** these basic functions on the system for individual users:

- **Homepage:** Introduce “Vision”, “Mission”, and all other functions

- **About page:**

- + What we do: “What we do?”, “Vision”, “Mission”, “Core value”
- + Leading team
- + Our partners

- **Courses:** *Is this on a separate page from the homepage?*

The following courses are presented:

- + F&B
- + Beauty & Spa
- + Tourism & Hospitality
 - + Detailed course description: *One detail and register page for each course?*
 - + Course introduction
 - + Course length
 - + Course outline
 - + Course provider
 - + Benefits of the course
 - + Price
 - + CTA: Register this course!
 - + Detailed page of registration:
 - + Personal information:
 - + Name
 - + Age
 - + Gender
 - + Living location
 - + Bank account information (VISA/MASTERCARD):
 - + Bank (Branch)
 - + Bank/Card number
 - + Account name
 - + CTA: Buy the course now!

- **Job opportunities:**

- + Job search engine *Search engine and result display on the same page?*
- + Filter jobs by:
 - + Expected salary (slide bar: ... - \$)
 - + Experience level (drop down list: Internship, Entry level, Junior, Mid-level, Senior)

- + Company size (drop down list: 1-20 employees, 21-50 employees, 51-100 employees, 100+ employees)
- + Working format: (drop down list: Remote, Hybrid, On-site)
- + Specialization: Beauty & Spa, F&B, Tourism & Hospitality, Engineering, Event, Mechanics, Nursing & Medical
- + Job details page:
 - + Detailed job description (Example):
 - + Job title: Hairdresser
 - + Employer: The Sandy Chair
 - + Application deadline: 10/10/2022
 - + Salary: AUD\$40/h
 - + Working location: Sandringham, Melbourne VIC
 - + Scope of work: ...
 - + Experience requirement: ...
 - + Benefits:
 - + Company's introduction:
 - + Short description
 - + Email
 - + Phone
 - + CTA: Apply this job!
 - + CTA: Save this job
 - + Application page:
 - + Personal information:
 - + Name
 - + Age
 - + Gender
 - + Job application
 - + CV/resume upload
 - + Statement of purpose (Why do you want to apply for this job?)
 - + What support do you expect to gain from the company?
 - + Do you have any questions for us?
 - + CTA: Submit now!

- Candidate Profile:

- + **Headline:**
 - + Name
 - + Job title
 - + Experience level
- + **Personal information:**
 - + Name
 - + Age
 - + Gender
 - + Phone number
 - + Email
 - + Living location

Is this like a personal profile page where the user can keep track of and modify their personal, learning, and application-related information?

- + Educational background
- + Job information:
 - + Job role
 - + Experience level
 - + Career goal introduction
- + Experience statement:
 - + Skills tags
 - + Working experience:
 - + Company name
 - + Job role
 - + Time range
 - + Scope of work
 - + Extracurricular activities:
 - + Organization name
 - + Job role
 - + Time range
 - + Scope of work
- + Registered course: lists the jobs a user has applied in the system, showing the status tracking of each job
- + Applied jobs: lists the jobs a user has saved or applied in the system, showing the application status of each job (saved, applying, reviewing, failed, succeeded, interviewing)
- + Interviewing schedule: lists the jobs for which a user has successfully passed the CV round and is proceeding to the interviewing round
 - + Interviewing waitlist: Interview schedules need to be set with the employers
 - + Detailed page: a calendar with available time of employers set, candidates can book based on those schedule → CTA: Book!
 - + Interviewing on the go: What is the difference between these two options?
 - + Detailed page:
 - + Time
 - + Job title
 - + Job description
 - + Link to meeting

- Contact:

Is this on a separate page? Who should be the recipient of this contact page? The customers, the businesses looking for recruits, or the owner of this platform?

A form through which users can send their requests for information:

- + Email
- + Phone
- + Name
- + Message

Business to Business(B2B)

This system will provide business customers with the access to candidates who want to apply for their opening vacancies. We want **at least** these basic functions on the system for business users:

- **Homepage:** Introduce “Vision”, “Mission”, and all other functions

- **About page:**

- + What we do: “What we do?”, “Vision”, “Mission”, “Core value”
- + Leading team
- + Our partners

- **Profile:** Company's profile page?

- + **Headline:** Company name
- + **Company information:**
 - + Name
 - + Size
 - + Company introduction
 - + Phone number
 - + Email
- + **Job posting:** Can a company have more than 1 job posting?
 - + **Specialization:**
 - + **Detailed job description (Example):**
 - + Job title: Hairdresser
 - + Employer: The Sandy Chair
 - + Application deadline: 10/10/2022
 - + Salary: AUD\$40/h
 - + Working location: Sandringham, Melbourne VIC
 - + Scope of work: ...
 - + Experience requirement: ...
 - + Benefits:
 - + Company's introduction:
 - + Short description
 - + Email
 - + Phone
 - + Candidates list (who applied for this job)
- + **Candidates applied:**
 - + Specialization: lists the applied candidates based on specialization
 - + Action buttons: Yes, No, Considering
- + **Interviewing schedules:**
 - + **Interviewing waitlist:** Interview schedules need to be set with the approved (Yes) candidates
 - + Detailed page: a calendar with available time slots for employers → CTA: Set!
 - + **Interviewing on the go:**

- + Detailed page:
 - + Time
 - + Job title
 - + Job description
 - + Link to candidate's profile
 - + Link to meeting

- **Contact:** Can the contact page for customers be used for this as well?

A form through which business users can send their requests for information:

- + Email
- + Phone
- + Name
- + Message
- + Phone number: uhh, isnt there already a phone number?

Schedule A - Proposal Details

Part 4 - Permission to market the Proposal to Students

Swinburne University seeks permission to market an overview of your project to prospective students, as an example of the types of projects offered under the Capstone Project unit. This will occur prior to the start of a semester to attract interested students to form teams to work on the project.

No company or personal details will be identified at this time.

I Agree to allow details of this proposal to be marketed to prospective students for the purposes of team formation.

Name: **Nguyen Phung Minh Hang**

Position: Project Manager

Date: **10/09/2023**
