

**School of Computing**  
**Year 4 Project Proposal Form**

**SECTION A**

Project Title:	Scout Ahead
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Stream:	CASE4
Project Supervisor Name:	Dr. Stephen Blott
Version:	1.3

## SECTION B

### Proposal Description

- Project Overview
  - Scout Ahead is an idea for a planning tool focused at hiking groups or scout groups and will take open source mapping data and overlay weather information, elevation data, hostel locations and other open source data to gather as much information about a route before you head out.
- General area covered by the project
  - Web Application, Databases.
- Outline of the proposed project
  - Background - where the ideas came from
    - I wanted a planning tool focused on hiking that would give me ideas of where there are popular trails, what the weather would be like and how long these trails would take, then be able to take that information and upload it to your GPS.
  - Achievements - what functions it provides, who the users will be
    - The main function for this web application will be to act as a planning tool for hiking so that hikers are as prepared as possible and know as much information about their route as possible before heading out on the mountains regardless if they want a route for an hour or for a few days.
  - Justification - why/when/where/how it will be useful
    - The biggest benefit of using Scout Ahead will be when planning a route over several days as it will show you various options of where to stay, where you can go hiking, what the weather will be like and where the steepest parts of the route are.
- Programming language(s) - List the proposed language(s) to be used
  - JavaScript, HTML, CSS, SQL, XML.
- Programming tools / Tech stack – e.g. compiler, database, web server, etc.
  - Database, Server.
- Learning Challenges - List the main new things (technologies, languages, tools, etc) that you will have to learn
  - How to take mapping data and overlay it onto a map to create my own tiles.
  - Generating best possible paths.
  - Creating an easy to use interface.
  - Being able to export all the data for use on the mountains.
- Hardware / software platform - State the hardware and software platform for development
  - Web Development, Open GL.
- Special hardware / software requirements - Describe any special requirements.
  - Server and Database access.