School of Computing  
CA326 Year 3 Project Proposal Form

**SECTION A**

Project Title \_\_DCU Autism Support System\_\_\_\_\_\_

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Project Description (1-2 pages):

**Description:**

We propose to design and implement a web app that will be a support system for new students coming into DCU with Autism Spectrum Disorder. It is very difficult for these students to settle into university life as it is such a big change in environment and there are so many new faces and so our web app will be focused on making this transition as easy as possible for them. It will organize a mentorship program where current DCU students will be able to sign up to be mentors for the new DCU students. It will attempt to pair them based on course code. If it cannot pair based on course code, it will randomly pair mentees to mentors. Mentors will be given reading material on the portal to understand how to interact with these students appropriately and then they will have to pass a small, randomly generated test. The questions will be stored in a database and the student will have to score a certain grade in order to qualify and be paired with a mentee. There will be a chat feature incorporated into the web app to allow mentors and mentees to communicate. A chat detection program will detect when the students make a plan to meet up, retrieve both student’s timetables, web scrape them and based on when they are both free and both haven’t been working for longer than 4 hours, give a recommended time for them to meet up. Students will also be able to book therapy sessions through the web app, which is a service already provided by DCU.

**Programming languages:**

* JavaScript
* HTML & CSS
* MySQL

**Programming tool(s):**

* Node.js
* Bootstrap
* Angular
* Express

**Learning Challenges:**

* Node.js
* Angular
* Express

**Hardware / software platform:**

* Windows on PC