**Assignment Brief**

**Key aspects:**

* Test-driven development
* Kanban Boards (GIT Projects)
* Version Control (GIT)

**Portfolio Design Document:**

* Architecture for the entire system
  + Functionality and how they interact for: IoT device, Desktop app, Web app, Data Communication, Database – 1 page each
* Object-Oriented design of key sub-systems
  + Could include with architecture, do for web app and desktop app
* Requirements of key sub-systems (in the form of selected user stories)
  + Do for the 3 stakeholders (students using web app, students walking around, university)
* The evolution of UI wireframes for key sub-systems
  + Show how we iterated the website design (Wizard of Oz with initial wireframes, use that feedback for next stage)
* Details of the communication protocols in use (including a rational for your choice)
  + MQTT?
* Details of the data persistence mechanisms in use (including a rational for your choice)
  + Ask what this is?
* Details of web technologies in use (including a rational for your choice)
  + Use p5.js? Decide in next few workshops
* Breakdown of project into sprints (showing the users stories implemented in each)
  + Start laying out 2 week deadlines – starting 2nd March – 13th March
* Details of how you evaluated your designs (techniques used & awareness of their limitations)
  + User testing and feedback? (Already done in workshops (wizard of oz))
  + Code testing (test-driven development)
  + Awareness of limitations
  + Evaluation within our group, using different concept visualisation techniques (paper prototype, wireframes, processing)
  + SWOT (Google more)
* Discussion of Social and Ethical implications of the work (Ben/Ellis)
  + Social – easier to find friends? People could abuse the seat booking system?
  + Ethical –
* Reflective discussion of the success of the project
* Discussion of future work (in terms of design, development and evaluation)