BSc in Computing Dissertation by Practice

**Project Initiation Form (Project Term)**

**Section 1:**

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**Section 2:** Please fill either “Part a” **OR** “Part b”.

**Part a:**

Briefly describe what type of project that you wish to work on. In this case please describe the **type** of project, the **technologies** that you might use and any similar existing project (**References**).

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| N/A |

**Part b:**

If you have a project idea **and,** please describe it as: **What** you want to do (Brief project description)? **Why** you want to do it (Motivation)? **How** would you do it (Technologies)? And any similar existing projects (**Reference**)?

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| **Description**  App Name -> Medic-assist  This app will help people to build their medical profile online and search/book medical related services.  Some of the features covered in this app are: -   1. User profile signup/login Patients will be able to create their profile in which they can include about their medical history/profile. Which can help doctors to study patient cases without asking basic questions to all patients. 2. Hospital registration Any Hospital / clinic can register on this app/website and create their profile by giving information about their services like no. of beds, type of room/beds etc. 3. Blood bank services Doctors and patient will be able to find blood from the data entered by different hospital’s blood bank at one place. Which may help hospital and patients to find blood as soon as possible and book it in case of emergency even from different hospitals as well. 4. Doctor’s appointment service 5. Ambulance booking Service 6. Search user will be able to search for services around his/her location Search filter will be available like: places, prices, ratings,  Suggested services, hospitals etc will be visible to users according to the data provided by them in their profile for example from their medical history or profile   **Why I want to work on this?**  In Ireland, conditions with hospital emergency accommodations are unsatisfactory:  People must wait ages to get any bed in unforeseen circumstances, project under discussion will assist people to have forehand information of facilities and services so they have plenty of time to prepare and use them remotely.  **Technicalities**  API(backend) and Frontend will be developed completely different to follow microservices software architecture.  Using ReactJS for building frontend will be a whole new thing to work with. As I have researched it would good to develop web using this because of following reasons:   1. Write the components once and used it on different platform 2. Each component can have its own event handlers and functionality which can be integrated/ combined with other components to make a whole web page. 3. It creates virtual DOM which makes the working much faster than normal DOMs. 4. Full webpage doesn’t need to be reload in case of change in state / information of a page. 5. Code reusability is better than standard approach of building websites.   Backend will be developed once in this case and can be use by the frontends like native, web, desktop apps so that I will not be needed to develop different backend with every platform.  Production Server: AWS / Digital Ocean  Repository: Git / Bit bucket  Front End:  Platform: Web  Package Manager: npm  Framework: node.js, ReactJS, express  Language: JavaScript, HTML, CSS  Back End:  Restful API  Framework: Spring boot  Languages: JAVA / Groovy  Database: MongoDB |

For official use only:

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| Supervisor |  | Demo Date |  |
| Accounts |  | Attempt |  |

Comments: