SIT725  
APPLIED SOFTWARE ENGINEERING

**As a student at Deakin University, I want an efficient system for navigation on my phone, so that I can find my way easily to different locations in the campus like classrooms ,staffrooms and labs without delays.**

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| **Task** | **Task Description** | **Estimated Hours** |
| 1 | Construct the database schema to host user profiles, event data as well as navigation maps. | 4 hours |
| 2 | Build an API system which retrieves location data at the backend. | 6 hours |
| 3 | Implement the user authentication features through Passport.js. | 5 hours |
| 4 | Implement Socket.IO to establish real-time location updates that provide immediate updates. | 6 hours |
| 5 | The navigation system interfaces must be developed with HTML, CSS and JavaScript through front-end coding. | 8 hours |
| 6 | Secure data transmission requires implementation of AES encryption together with JSON Web Tokens. | 5 hours |
| 7 | Conduct tests on the navigation system across different platform devices. | 6 hours |
| 8 | Initial release of the application to its operational setting. | 3 hours |