School of Computing
CA326 Year 3 Project Proposal Form

SECTION A

Project Title: ID Wallet

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Project Description

Description - Our project proposal is an Android app. Its purpose would be to provide an alternative to carrying your personal identification cards in your wallet or cardholder at all times. This would be both safer and more efficient. The obvious reasoning for this is that a) you don't need to carry your ID cards so there's no risk of losing them, and b) it's more efficient to have your identification on your phone – instead of carrying multiple physical cards.

This app would be beneficial to the general public, as we plan to support the (Irish) Age Card, passports, and European national identity cards. The combination of these three different cards would ensure that the majority of European citizens would be able to utilize our app, as all EU member states except Denmark, Ireland, and the UK issue identity cards to their citizens. In the cases of Denmark, Ireland, and the UK, passports could be used instead, and in Ireland's case, there would also be the option of the Age Card.

Use Case/Example: Going to a nightclub
In the scenario of going to a nightclub, you might find yourself in the situation where you may have forgotten, or lost, your personal ID. In this situation, you could use the ID on our app and then use that as your identification when entering the nightclub. The bouncer would then use the app on his device to scan the ID on your device's app to check whether it is a valid document.

Programming languages - Java, JavaScript, Markup Languages - HTML

Programming tools - Android Studio, Git Repository - GitLab, JUnit, Node.js, Text editor, Web Server, WordPress

Learning Challenges - The main thing we have to do is familiarise ourselves with JavaScript and the new programming environment Node.js. We will also have to look into Steganography. Learning how to use a git repository, git commands and using the terminal will also be important. We will also have to look into app development and Android Studio.

Hardware / software platform - Windows 10, PC/Laptop

Special hardware / software requirements - Smartphone, Android OS