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**School of Information Technology**

**New Zealand Diploma in Software Development (Level 6)**

**Cover Sheet and Student Declaration**

This sheet must be signed by the student and attached to the submitted assessment.

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| --- | --- | --- | --- |
| **Course Title:** | SWD607 Mobile and App Development | **Course code:** | **SWD607** |
| **Student Name:** | **Marvin Coronel** | **Student ID:** | **764700878** |
| **Assessment No & Type:** | **Assessment 1**  ProjectProposal | **Cohort:** | **NZDSD6221C** |
| **Due Date:** |  | **Date**  **Submitted:** |  |
| **Tutor’s Name:** |  |  |  |
| **Assessment**  **Weighting** | 30% |  |  |
| **Total Marks** | 100 |  |  |

**Student Declaration:**

I declare that:

* I have read the New Zealand School of Education Ltd policies and regulations on assessments and understand what plagiarism is.
* I am aware of the penalties for cheating and plagiarism as laid down by the New Zealand School of Education Ltd.
* This is an original assessment and is entirely my own work.
* Where I have quoted or made use of the ideas of other writers, I have acknowledged the source.
* This assessment has been prepared exclusively for this course and has not been or will not be submitted as assessed work in any other course.
* It has been explained to me that this assessment may be used by NZSE Ltd, for internal and/or external moderation.
* If I am late in handing in this assessment without prior approval (see student regulations in handbook), marks will be deducted, to a maximum of 50%.

Diagram

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**Student signature:**

**Date:**

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| --- | --- | --- |
| **Tutor only to complete** |  |  |
| **Assessment result:** | **Mark /100** | **Grade** |

# Part A – Project Planning

## Task 4:

For the project, the following technologies have been selected:

Programming Language:

JavaScript: JavaScript is a high-level, dynamic, and interpreted programming language that is widely used for front-end development. It is a popular choice for web development due to its versatility, ease of use, and support for a variety of frameworks and libraries.

Python: Python is a high-level, interpreted programming language that is widely used for a variety of applications, including back-end development, data analysis, machine learning, and more. It is a popular choice due to its simplicity, readability, and large community of users.

Platform: React Native React Native is a platform that allows developers to build native mobile applications using JavaScript and React. It is a popular choice for building cross-platform mobile applications because it provides a consistent user experience across different platforms and allows for easy code sharing between iOS and Android.

Framework: Django is a high-level Python web framework that allows developers to quickly build web applications with minimal overhead. It provides a built-in administrative interface, an Object-Relational Mapping (ORM) system for database management, and a robust security framework, making it an ideal choice for back-end development.

Database Management System: SQL (built-in with Django) Django comes with a built-in SQL database management system that provides a simple and efficient way to store and manage data. The built-in SQL database management system eliminates the need for a separate database management system, making it a convenient choice for developers.

Integrated Development Environment (IDE): Visual Studio Code Visual Studio Code is a popular, free, and open-source code editor that supports a wide range of programming languages and has a large community of users. It provides a robust set of features, including code highlighting, code completion, and integrated debugging, making it a convenient choice for developers.

The motivation behind selecting these technologies is that they are widely used, well-supported, and provide a robust set of features that make it easier to develop and maintain the project. Additionally, these technologies are well-suited for the project requirements, providing the necessary functionality, scalability, and ease of use for front-end and back-end development, database management, and code editing.