Version 1.2

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Technical Plan

###### NBCC Practicum tool

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# **Document Revisions**

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| --- | --- | --- | --- |
| **Number** | **Date** | **Description** | **Resource** |
| 1.0 |  | Initial Draft |  |
| 1.1 |  | 2nd Draft |  |
| 1.2 |  | Final Copy |  |
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# **Document Review**

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| --- | --- | --- |
| **RevisionNumber** | **Date** | **Resource** |
| 1.0 |  |  |
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Overview

This system aims to streamline practicum management, ensuring clear communication and efficient tracking for both students and instructors. The student will be able to opt in or opt out of the practicum with a simple checkbox. Updates and notifications will keep the student informed about practicum decision and status. Instructors will be able to manage all student’s practicum status’ and make updates and changes. Instructors will be able to filter through students by campus (if applicable), practicum status, and name for simple and efficient result retrieval.

Platform

The Practicum Tool is a Windows-based web application built using WAMP (Windows, Apache, MySQL, and PHP) stack implemented through the XAMPP package. The font-end is designed using HTML, CSS, JavaScript, and JQuery and the back end will utilize PHP as a code base. The database will be integrated with MySQL using MySQL Workbench as an editor. The application runs on a local or hosted web server that supports PHP and MySQL.

Architecture

The application follows a three-layer object-oriented architecture. The presentation layer consists of HTML, CSS, JavaScript, and JQuery, responsible for rendering the user interface and handling client-side interactions. The business layer is implemented with PHP, containing classes to store objects and functions to process data. The Access layer interacts with the MySQL database, contains the connection and configuration file.