

Team Registration and Engineering Setup

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Abstract— Deliverable 0 outlines the foundation of the Software Engineering class project. This document introduces our team members and their Software Engineering backgrounds. Additionally, it is presented the selected development tools, including version control, IDE, programming language, communication software, and progress tracking tools, setting the stage for a successful Information Capture and Dissemination Environment (ICDE) project.

I. TOOLS FOR PROJECT DEVELOPMENT

A. Version Control

We will be using Git which is a widely used distributed version control system that can be hosted in **GitHub** for code versioning. A public repository will be maintained among the group.

B. Integrated Development Environment (IDE)

We will be using **Visual Studio Code** since it supports multiple languages, debugging, version control, code formatting. We will also be using **PyCharm** since it supports web development, database management, and Python

programming, making it suitable for a project involving Python development.

C. Programming Languages

Since the project involves data capture, storage, and processing, **Python** is used as it is a versatile language commonly used for these tasks and has multiple library options.

D. Data Model

We will be using **MongoDB** to maintain the unstructured data and store the results.

E. Group Communication softwares

We will be using **Slack** as our file sharing and project discussion software. For video conferencing, we will be using **Zoom**.

F. Project Tracking tools

We will be using **Jira** which is a popular project management and issue tracking tool that can manage tasks, track progress, and prioritize work.