

PROJECT TITLE

Next Generation Approach For Enhancing Exam Hall Distribution Through Unique And Anomalous Semantic Techniques

Installation Steps:

1. Visual Studio Code (VS Code):

- **Download:** Visit the official Visual Studio Code website.
- **Download the Installer:** Choose the appropriate installer for your operating system (Windows, macOS, or Linux).
- **Run the Installer:** Double-click the downloaded file and follow the on-screen instructions to complete the installation process.
- **Open VS Code:** Once installed, open Visual Studio Code to start using it for code editing and development tasks.

2. Python Installation:

- **Download Python:** Visit the official Python website at python.org.
- **Choose Installer:** Click on the "Downloads" tab and select the appropriate installer for your operating system.
- **Run the Installer:** For Windows, execute the downloaded .exe file and follow the installation instructions. Make sure to check the box that says "Add Python to PATH" during installation.
- **Verify Installation:** After installation, open a terminal or command prompt and run the following command to verify Python installation:

```
python --version          // command
```

3. Django Setup:

- **Install Django:** Ensure Python is installed, then use pip to install Django:

```
pip install django        // command
```

- **Create Project:** Use Django's command-line interface (CLI) to start a project:

```
django-admin startproject projectname // command  
cd projectname                    // command
```

- **Create App:** Inside the project directory, create a new Django app:

```
python manage.py startapp appname    // command
```

- **Database Setup:** Configure database settings in the settings.py file if necessary. Django defaults to SQLite.

- **Create Database:** Run migrations to create the database schema:

```
python manage.py makemigrations // command
python manage.py migrate // command
```

4. Install Packages:

- **pandas:** Install pandas for efficient Excel data insertion.

```
pip install pandas // command
```

- **openpyxl:** Install openpyxl for Excel Reports.

```
pip install openpyxl // command
```

- **reportlab:** Install reportlab for generating PDFs

```
pip install reportlab // command
```

Execution Process:

5. Run the Project:

- **Start the Server:** Execute the following command to run the Django development server:

```
python manage.py runserver // command
```