**Project Report**

**Project Title**

*(Specify the selected project in the Project Title, e.g., "Student Performance Dashboard")*

Group #

***Declaration***

We, the **Group # number**, declare that the project report titled **[Project Title]** results from our group effort. We affirm that we have not copied or plagiarised the project content from any source. Any external descriptions, concepts, or information used have been appropriately rephrased in our own words, and proper references have been provided where applicable.

We understand and agree that this project report will be subjected to a **Turnitin** check to verify its originality.

|  |  |  |
| --- | --- | --- |
| **Name of the Students** | **Username** | **Student ID** |
|  |  |  |
|  |  |  |

**Abstract** *(100 to 150 words) = (heading font size = 18, font = Times New Roman = it’s applicable for all headings)*

Summary of the project’s purpose, methodology, and findings. *(Font size = 12, font = Times New Roman = it’s applicable for all descriptions)*

**Introduction** *(half page highest, or 300 to 350 words)*

Problem Statement. The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

Motivation for the project. The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

Overview of the implemented solution. The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

**Environment Setup**

A short description *(~50 words)*

*Then………..*

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

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Description of tools and technologies used

*(e.g., Python version, libraries, APIs, IDEs, etc.).*

Detailed steps for environment setup, including installation and configuration of dependencies.

* Describe
* Add figures

**Libraries and Utilities**

A short description *(~50 words)*

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

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*Then………..*

**Table of Libraries Used**: *(one example given)*

**Table Title**

|  |  |  |
| --- | --- | --- |
| **Library Name** | **Purpose** | **Reason for Choice** |
| Matplotlib | Data Visualization | High-quality plotting for graphs and charts |

Justification for selected libraries and their relevance to the project goals.

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

**Implementation**

A short description *(~50 words)*

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

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*Then………..*

*If any formula or equation you are going to write in any section of the report, make sure you followed the following rule:*

*a**b* 

Note that the equation is centred using a centre tab stop. Be sure that the symbols in your equation have been defined before or immediately following the equation. Use “(1)”, not “Eq. (1)” or “equation (1)”, except at the beginning of a sentence: “Equation (1) is . . .”

Functions Details: *(that you created and defined for the project purpose)*

**Table Title**

|  |  |  |
| --- | --- | --- |
| **Library Name** | **Purpose** | **Reason for Choice** |
| visualize\_data() | Plots data trends | Reads cleaned data and plots graphs |

Code snippets for key functions *(if applicable)*.

Step-by-step implementation process.

**Results and Analysis** *(in total 300 to 350 words)*

A short description *(~50 words)*

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

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*Then………..*

Graphs and charts showcasing key findings *(e.g., visualisations generated using Matplotlib, Seaborn, Plotly, etc.)*.

Interpretation of results.

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

Explanation of how results align with the project objectives.

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

**Challenges and Solutions**

A short description *(~50 words)*

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2].

*Then………..*

Key challenges you and your group faced during implementation.

* Challenge………………
* Challenge………………
* Challenge………………

Solutions adopted to overcome these challenges.

* Solution………………
* Solution………………
* Solution………………

**Limitations**

Discussion of any constraints or unaddressed aspects of the project.

**Lessons Learned**

Discussion of learning during the implementation of the project. Reflection on the project’s learning outcomes.

**Conclusion** *(in total 300 to 350 words)*

Summary of achievements.

**Future Work**

Suggestions for enhancements or extensions of the project.

**References**

*Cite all resources used (e.g., documentation, tutorials, articles). An example given:- (do not add Wikipedia or google as your reference)*

1. Grinberg, M., 2018. Flask web development. " O'Reilly Media, Inc.".
2. Myers, J., Copeland, R. and Copeland, R.D., 2015. Essential SQLAlchemy. " O'Reilly Media, Inc.".
3. McKinney, W., 2015. Pandas, python data analysis library. URL: http://pandas.pydata.org, pp.3-15.

**Appendices**

*Additional materials:*

Please write how we can run your submitted project, including py or ipynb file name details.

**Raw data files (if applicable, for example, a dataset, please submit it to Owl so we can check it).**

**Environment setup details (package list = if you utilised any).**

**Complete code (please submit the code files in Owl).**