**Chapter 4: System Design**

**4.1 Basic Modules:**

The Project at hand is an accumulation of small data science web deployable projects

Hence it contains the following modules in it

1. **Landing site**: The landing site contains a list of all the projects as well as an option to review the project. The landing site contains the abstract of the project in it’s about section
2. **The deployable web apps**: These are of different types and are relevant to their fields. Their main functionality is to offer infographic representation of live data from remote servers.
3. **Review page**: The Review page contains a feedback form that posts the user details as well as the reviewed information to the feedback table and uses smtp to store it in mail trap

**General Issues:**

The Project has a fragmented layout and design, making it discontinuous and it requires high maintenance. Since there are no user credentials involved in this project the security aspect is uncompromised, but it implements multiple frameworks and hence is dependant on those frameworks to keep working when it’s deployed.

Any change in the framework can result in an entire application being subjected to failure including the dependence on open and free Web API’s. The moment a company or organisation discontinues or deprecates its data provision the application will no longer be able to process and display data.

Multi-server implementation makes the project resource heavy and implementing it requires higher system and hardware requirements. The Use of free API’s can lead to bad requests and responses from the remote server as it is subject to exploitation and poor maintenance.

This entire project is in regard with Data Science and learning and hence has very little economic or organisational value and can only be associated regarding data visualisation and representation.

**User Interface Designs**

1. **Landing site:**

Text

Description automatically generated

Text

Description automatically generated

1. **User interface for the deployable web apps from the list**
2. **Pulse cryptograph**

Chart

Description automatically generated

Chart, line chart

Description automatically generated

1. **Pulse DNA analyser**

Text

Description automatically generated

1. **Pulse weather**

Graphical user interface

Description automatically generated

1. **Review Page**

Graphical user interface, text, application

Description automatically generated

After submitting

Graphical user interface, application

Description automatically generated

**References:**

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