**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 23 September 2022 |
| IBM ID | IBM-Project-6005-1658822040 |
| Project Name | Project – Analytics for Hospital Health Care Data |

**Proposed Solution:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Create a model predicting the length of stay for every beneficiary at the time of admission. |
|  | Idea / Solution description | The solution is to collect data such as the beneficiary's history and ailments, beneficiary's drug, and allergy history, family history, and beneficiary's demographics and predict the length of the stay by analyzing the data and build a prediction model |
|  | Novelty / Uniqueness | Beneficiaries can utilize the application to make better financial decisions, thereby increasing the community's standard of living. This application intangibly encourages citizens to enroll in the healthcare programs. |
|  | Social Impact / Customer Satisfaction | The application has a Drug Information System which accounts for the drug history of the beneficiaries. The system provides up-to-date, accurate medication profiles for improved health planning, evaluation, and research. It also includes a comprehensive Drug Utilization Review (DUR) and flags potential interactions with a patient's medication profile. |
|  | Business Model (Revenue Model) | Providers (hospitals) can access the model/application through a subscription service. The minimum subscription period will be an year. |
|  | Scalability of the Solution | At the start, the model is designed to ingest and process 100 providers and 100000 patients, which can be expanded exponentially increasing processing power and database upgrades biannually. |