Project Design Phase-I

Proposed Solution Template

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID12805 |
| Project Name | Project – Personal Assistance for Seniors Who Are Self-Reliant |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | * Elderly people who forget to take their medicine and people who suffer from severe diseases need to take their medicines at correct time. Therefore we should create a routine ,a resort to something that reminds them to take medicined at right time. * It is also a tedious task for the doctors/caretakers to monitor the patients around the clock. |
| 2. | Idea / Solution description | * Medicine remainder serves a s a good way to stay on track and uphold an appropriate schedule. * Hence to avoid the problem faced by the elderly, we develop a medicine remainder system to ensure that they are properly taking their medications which avoids unnecessary illness. * Here we use IoT device, web application, CloudantDB and text to speech. * The medicine name and timing data should be stored in CloudantDB. * If the medicine time arrives the web application notifies the IoT device through the IBM IoT platform. The device will receive the medicine name and notify the user with voice commands. |
| 3. | Novelty / Uniqueness | * This app sends a notification to the user when the person should take the medicine. * It can also be used to analyze and track whether their loved ones are taking their medication on time. |
| 4. | Social Impact / Customer Satisfaction | * This system is very useful for doctor and caretakers as it helps to monitor the patients easily. * This also boosts the confidence level of the user as it reminds them the correct time to take the medicine. * It prevents them from severe illness that may occur due to their forgetfulness. * It helps patients to enhance medication adherence even among those who lack experience with portable devices. |
| 5. | Business Model (Revenue Model) | * In business point of view, it helps medication management business to succeed and save from pointless wastings. * Despite a broad market proposition , the potential for medication reminder app development is still very high. |
| 6. | Scalability of the Solution | * The growing number of mobile health applications helps to reduce global problem of non-adherence to long term medications. * It is expected to reduce medication error and improve patient adherence to medical prescriptions. |