**Annexure – 2: Synopsis Template**

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| 1 | Name of the Project | Shellinabox |
| 2 | Objective Vision | To maintain a shell for a user on which a user can have all cloud services like Saas,Paas,etc and also upload there data on cloud and analyse it using Hadoop and spark.We also provide the 3 authentication in our project like face recognition ,speech recognition and userid. |
| 3 | Users of the System | a. Everyone |
| 4 | Functional Requirements | 1. A system for any type of users who need some kind of software or services.  2. A system for any type of users who want to store there data securely and analyse it regularly.  3. Give storage to the user according to need of user.  4. Gives a personal operating system using containers in docker.  5. Gives the detail about all past analysis of data from any particular account.  6. Use NLP.  7. Own platform for coding.  8. Admin can monitor every activity which is performed by system. |
| 5 | Non-functional requirements | 1. Highly secure with different authentication.  2. Access this shell 24x7 .  3. Flexible service based architecture will be highly desirable for future extension  4. Upload and analyse your secure data. |
| 6 | Optional features | 1. Showing the graphs of analysed data.  2. Face recognition for unlocking the user account.  3. Speech recognition for unlocking the user account.  4. Give you a online music player. |
| 7 | User interface priorities | 1. Professional look and feel  2. Use of Python-cgi,html,css at least with all registration forms  3. Browser testing and support for IE, Mozilla and Firefox.  4. Use of Graphical tool like Jupyter notebook to show data of client.  5. Reports exportable in .XLS, .PDF or any other desirable format |
| 8 | Reports | 1. System will generate when user demonds come. |
| 9 | Other important issues | 1. No need to type ID and password all time for login.  2. It also understand human language and work according to it. |
| 10 | Team Size | 3 |
| 11 | Technologies to be used | BigData,spark,cloud,linux,python,machine learning, deep learning,Ansible,dockers. |
| 12 | Tools to be Used | 1. VirtualBox  2. Jupyter notebook |
| 13 | Final Deliverable must include | 1. Online or offline help to all users.  2. Project archive (.tar) with source code  3. Database backup  4.Complete Source code |