**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

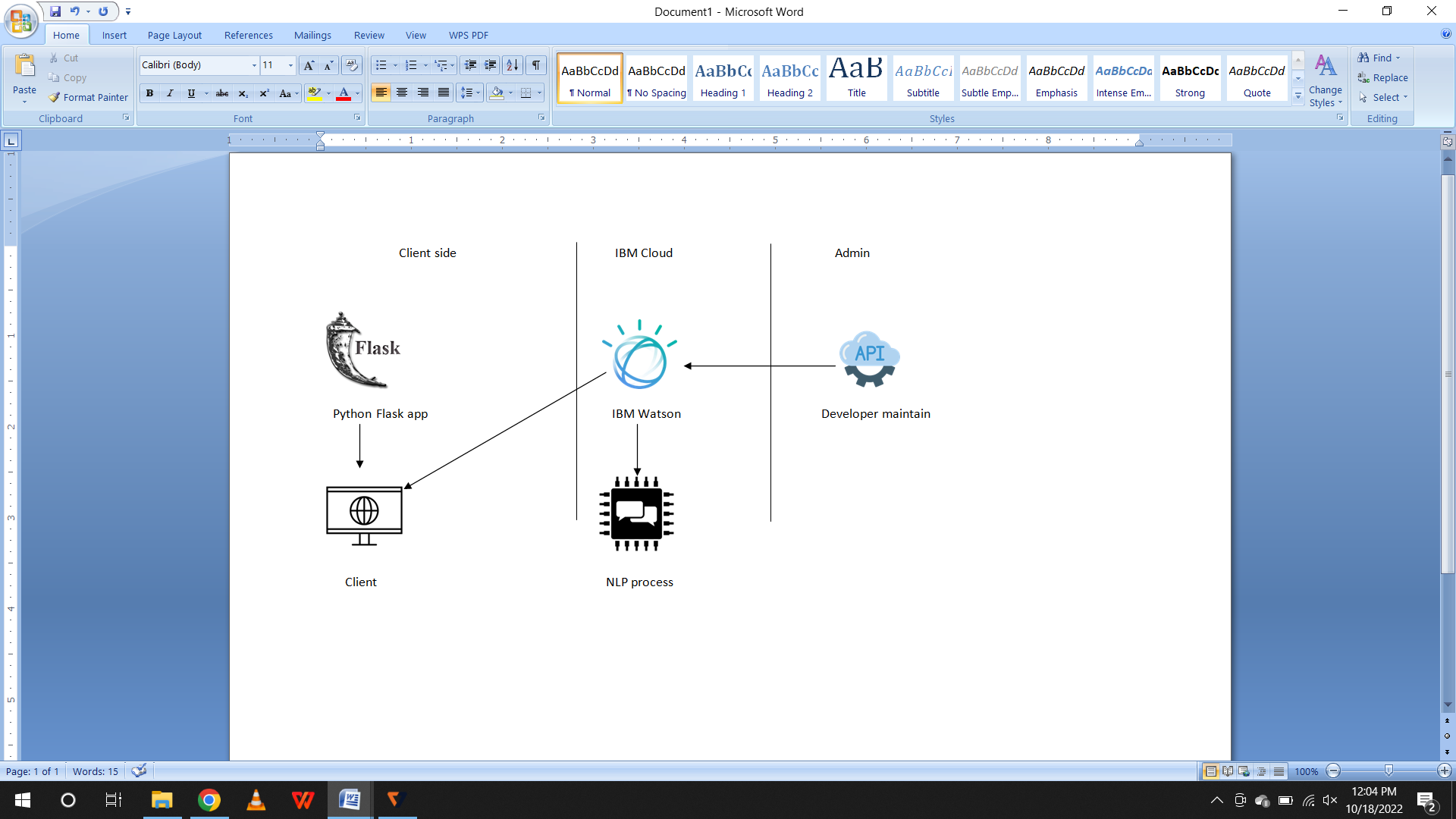
|  |  |
| --- | --- |
| Date | 03October 2022 |
| Team ID | PNT2022TMID38674 |
| Project Name | AI based discourse for banking industry |
| Maximum Marks | 4 Marks |

**Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

**Example: Order processing during pandemics for offline mode**

**Reference:** [**https://novagenio.medium.com/watson-assistant-with-python-flask-chatbots-translation-ibm-options-fd4885ee4bb8**](https://novagenio.medium.com/watson-assistant-with-python-flask-chatbots-translation-ibm-options-fd4885ee4bb8)

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Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API’s etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

**Table-1 : Components & Technologies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
|  | User Interface | How user interacts with application e.g.  Web UI, Mobile App, Chatbot etc. | HTML, CSS, |
|  | Application Logic-1 | Logic for a process in the application | Python |
|  | Application Logic-2 | Logic for a process in the application | IBM Watson Assistant |
|  | Cloud Database | Database Service on Cloud | IBM DB2, IBM Cloudant |

**Table-2: Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | Open-Source Frameworks | List the open-source frameworks used | Technology of Opensource framework |
|  | Security Implementations | List all the security / access controls implemented, use of firewalls etc. | e.g. SHA-256, Encryptions, IAM Controls, OWASP etc. |
|  | Scalable Architecture | Justify the scalability of architecture (3 – tier, Micro-services) | Technology used |
|  | Availability | Justify the availability of application (e.g. use of load balancers, distributed servers etc.) | Technology used |
|  | Performance | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN’s) etc. | Technology used |

**References:**

https://novagenio.medium.com/watson-assistant-with-python-flask-chatbots-translation-ibm-options-fd4885ee4bb8