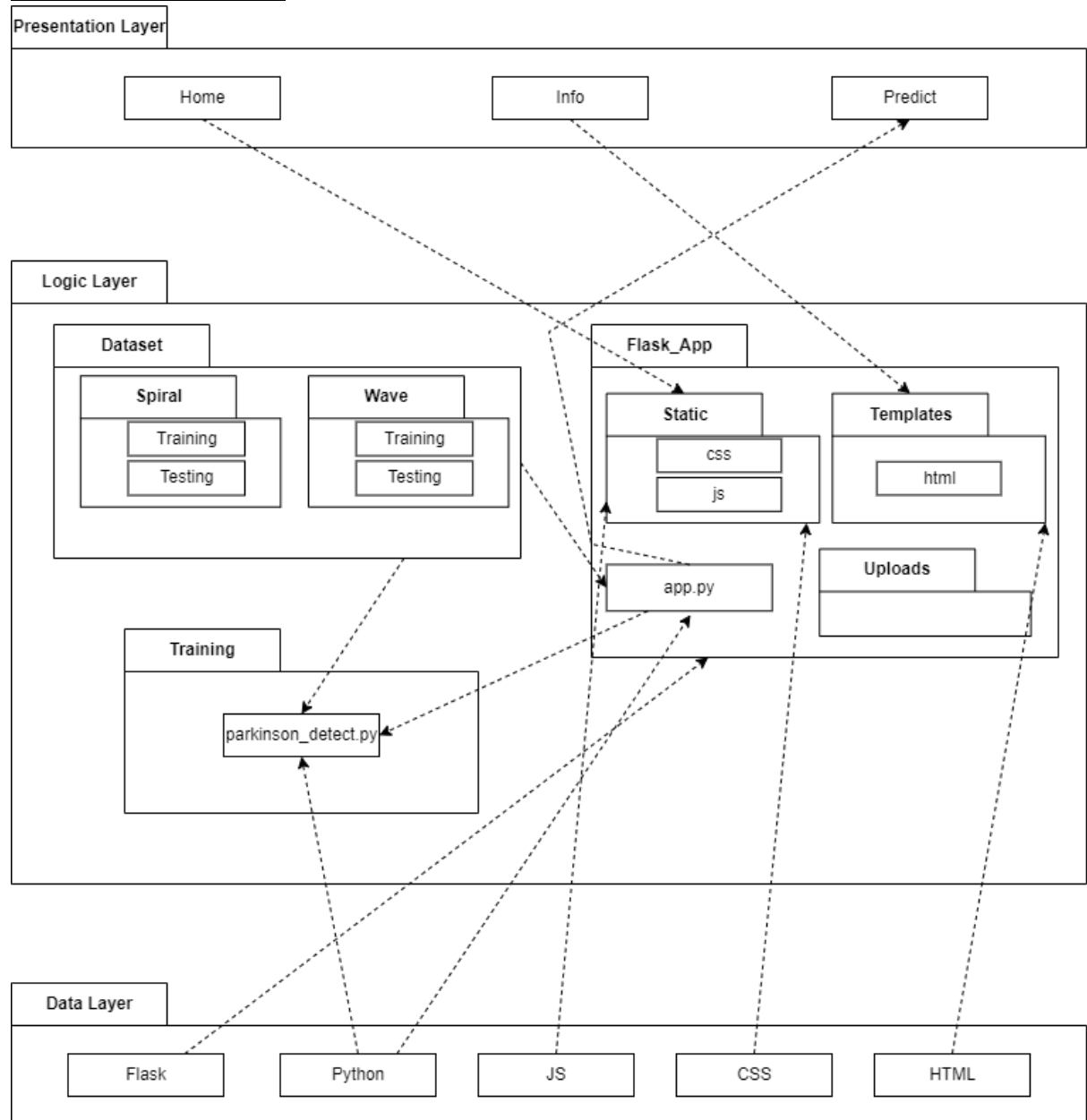


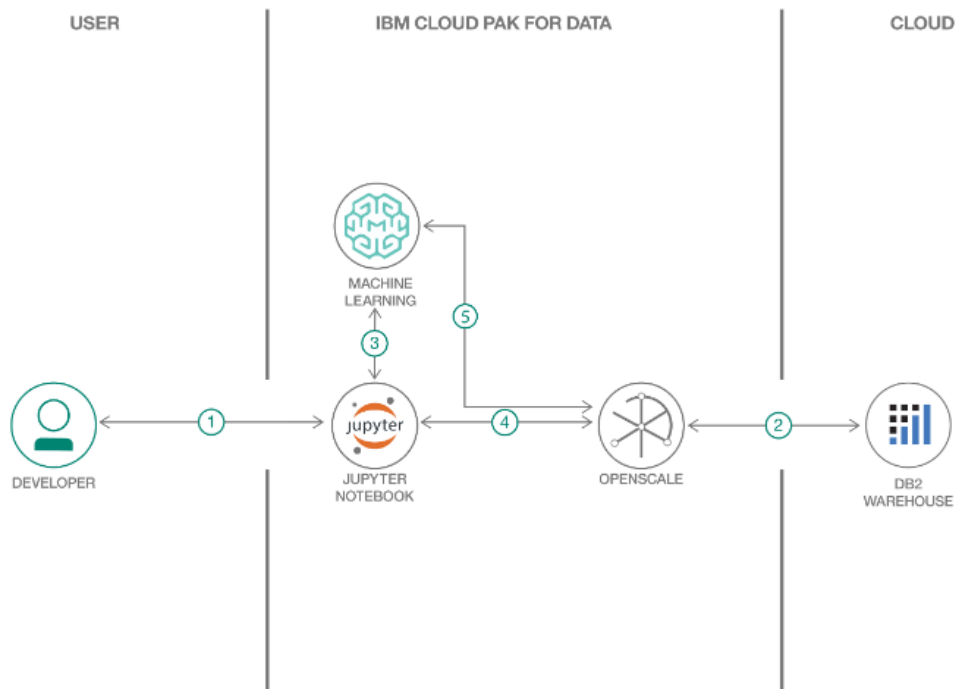
## Project Design Phase – II

### Technology Stack (Architecture & Stack)

<b>Date</b>	14 October 2022
<b>Team ID</b>	PNT2022TMIDD53042
<b>Project Name</b>	Detection of Parkinson's Disease using Machine Learning
<b>Maximum Marks</b>	4 marks

#### Technical Architecture:





**Table – 1: Components & Technologies**

S.No	Component	Description	Technology
1.	User Interface	User interacts with the application by using Web UI	HTML, CSS, JS
2.	Application Logic - 1	Training and testing of model	Python
3.	Application Logic – 2	Integrating front-end and back-end	Flask
4.	Application Logic – 3	<ol style="list-style-type: none"> <li>For enabling users to build, run and manage the model</li> <li>Optimize decisions at scale across any cloud</li> </ol>	IBM Watson
5.	Cloud Database	Database service on cloud	IBM DB2
6.	Machine Learning Model	Detecting Parkinson’s Disease	Random Forest Classifier

**Table - 2: Application Characteristics**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is used in back-end	Python
2.	Security Implications	User’s Data is encrypted	Machine Learning
3.	Scalable Architecture	Works well under multiple requests	IBM Watson
4.	Availability	Available all the time	IBM Watson
5.	Performance	Time required to predict the disease	Machine Learning