

Experiment No. 2

Title: Write a Web Service using Java or Python. Deploy the services using PaaS tools such as Cloud Foundry/ GoogleAppEngine / OpenShift.

Objectives:

- To understand the concept of web service.
- To get familiar with PaaS Service.
- Learn how to deploy the web service on cloud Foundry/GoogleAppEngine/ OpenShift.

Theory:

- Introduction Web service
- Different types of web services
- Web service development using Java
- Web service development using Python
- Steps /procedure to follow for web service deployment using any PaaS tool

Conclusion:

Students should write the learning outcome and conclusion

FAQs:

- 1) Explain the differences between SOAP and RESTful web services in terms of architecture, communication protocols, and data formats?
- 2) Can you describe the typical architecture of a web service and the components involved, including clients, servers, and service endpoints?
- 3) What are some common use cases for web services in various industries and domains, such as e-commerce, finance, healthcare, and IoT?
- 4) What are Platform-as-a-Service (PaaS) tools like Cloud Foundry, Google App Engine, and OpenShift, and how do they differ from other cloud computing service models?
- 5) How does Cloud Foundry streamline the process of deploying and managing applications across different cloud environments, including public, private, and hybrid clouds?