Create Ad Campaigns(RESTful Web Service) - Gokul

Components used:

Eclipse – **Java EE** – IDE for running the project

Server – Tomcat v 7.0 Server

Postman - Used for testing the web service

Junit – Used for carrying out unit tests

Project Hierarchy in Eclipse

Following Java files in the eclipse in the path **AdServer/JavaResources/src/org.AdServer.Services**

- **AdContent.Java**

  It contains the POJO components for setting and retrieving the contents of the AdServer

- **AdResource.Java**

  It contains the main REST resource class. Contains three different HTTP methods.

FUNCTION	HTTP METHOD	URI	BRIEF EXPLANATION
getAllAds()	GET	http://localhost:8081/AdServer/rest/ad	Retrieves all the ads
getAdsById()	GET	http://localhost:8081/AdServer/rest/ad/{}	Retrieves a specific ad
createAd()	POST	http://localhost:8081/AdServer/rest/ad	Publishes a specific ad

- **AdRepository.Java**

  It contains the memory components and functions responsible for implementing the service.

- **AdRespositoryTest.Java**

  It contains the unit test cases written in Junit for testing purposes.

The entire service was tested using postman chrome extension. URI was tested using different HTTP requests and different header formats.

Future Enhancements
More Junit test cases will be carried out. Support for reading JSON data into the file during Junit testing will be added in near future.