IIHT

cloud-based Computing and python v0.1

Proficiency – PL1

Contents

[cloud-based Computing and python v0.1 0](file:///E:\Gopi\Use%20Case%20Study%20-%20Cloud%20Computing%20%20and%20Python%20-%20PL1%20v0.1.docx#_Toc118730670)

[Proficiency – PL1 0](file:///E:\Gopi\Use%20Case%20Study%20-%20Cloud%20Computing%20%20and%20Python%20-%20PL1%20v0.1.docx#_Toc118730671)

[1 Problem Statement 2](#_Toc118730672)

[2 Tool Chain 2](#_Toc118730673)

[3 Business-Requirement: 2](#_Toc118730674)

[4 Rubrics/Expected Deliverables 2](#_Toc118730675)

[4.1 Middleware 2](#_Toc118730676)

[4.2 Database (Products & Frameworks -> Database & Storage): 3](#_Toc118730677)

[4.3 Testing – Security testing 3](#_Toc118730678)

[5 Frontend - optional 3](#_Toc118730679)

# Problem Statement

Perform Cloud based security testing of your custom web application\* using either one of all the following url: <https://www.myntra.com/>

The core things to test are the following

1. User authentication/authorization
2. Access to a Cloud Resource [VM]
3. Develop a front end application using python on the cloud
4. Perform the App Scan on cloud

The scope includes developing the application using tool chain mentioned below.

# Tool Chain

|  |  |  |
| --- | --- | --- |
| Competency | Skill | Skill Detail |
| Presentation | HTML /CSS / Javascript |  |
| Core | Python |  |
| Database | MySQL DB |  |
| Security Testing Tools | App Scan |  |
|  |  |  |

# Business-Requirement:

As an application develop the front end and do testing of the application with below guidelines:

|  |  |  |
| --- | --- | --- |
| User  Story # | User Story Name | User Story |
| US\_01 | Front End | User need to create a front end application like Employee details(Personal, Salary, Address) |
| US\_02 | Save | User need to save details in the MySql |
| US\_03 | AppScan | User need to perform the AppScan on the cloud for security and vulnerabilities |

# Rubrics/Expected Deliverables

## Middleware

* 1. Use Java/Spring Boot to develop the above given user stories.
  2. Use necessary configuration in properties file
  3. Package Structure for Project should is with proper naming conventions for package and beans.
  4. Follow proper Naming Conventions

## Database (Products & Frameworks -> Database & Storage):

1. As an application developer:
   1. Add the registration users to the database and fetch the details whenever needed
   2. Leverage Cloud DB

## Testing – Security testing

1. Use AppScan Framework or Burp Suite
2. Install Cloud CLI on your system
3. Ensure you are able to connect to cloud and access and manage cloud resources/services
4. Ensure you are using AWS Cloudwatch, Azure Insights etc to capture testing logs, trace, events etc.,

# Frontend - optional

* + - 1. Develop the front end for all user stories.
      2. Implement using either Angular or React
      3. Implement all the Front-End validation rules
      4. Proper naming conventions and folder structures