Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Demo Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Backend Tech Stack: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Database Used: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

REST API Test Tool: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Demo Requirement** | **Max Marks** | **Mark Earned** |
| Demo sending a POST request to REST API to **login** with a **valid** username/password returns an HTTP status of 200 with a JWT.  Demo sending a POST request to REST API to **login** with an **invalid** username/password returns an HTTP status of 401. | 1 |  |
| Demo sending a **POST** request to REST API to **create data** without a JWT returns an HTTP status of **400/401**.  Demo sending a **POST** request to REST API to **create data** with a JWT returns an HTTP status of **201**. | 1 |  |
| Demo sending a **GET** request from REST API without an JWT returns an HTTP status of **400/401**.  Demo sending a **GET** request from REST API with JWT returns an HTTP status of **200** with expected data. | 1 |  |
| Demo sending a **PUT** request from REST API without an JWT returns an HTTP status of **400/401**.  Demo sending a **PUT** request from REST API with JWT returns an HTTP status of **200/204** with expected data. | 1 |  |
| Demo sending a **DELETE** request from REST API without an JWT returns an HTTP status of **400/401**.  Demo sending a **DELETE** request from REST API with JWT returns an HTTP status of **204**. | 1 |  |
| Demo sending a **POST** request to REST API to **logout** returns an HTTP status of 200.  Demo sending a **POST** request to REST API with a **refresh token** with a new JWT returns an HTTP status of **400/401**. | 1 |  |
| **Total** | 6 |  |

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| **Documentation Requirement** | **Max Marks** | **Mark Earned** |
| Learning Resources:   * Links are provided on where you are learning the materials from. * A description about the provided links. * A summary of key concepts you learned from the links. | 3 |  |
| Database Access Code:   * Database engine used is documented, for example SQL Server. * Code used to insert data into database table. * Code used to update data in a database table. * Code used to delete from a database table. * Code used to read and filter data from a database table. * Code used to read all data from a database table. | 3 |  |
| REST API CRUD endpoints:   * Framework/library used to define REST API endpoints, for example ASP.NET Web API. * Code used to define REST API endpoint to create data. * Code used to define REST API endpoint to read all data. * Code used to define REST API endpoint to read and filter data. * Code used to define REST API endpoint to update data. * Code used to define REST API endpoint to delete data. | 3 |  |
| REST API login endpoint:   * Code used to authenticate username and password.   + Code show authentication using a database or LDAP identity store.   + Code to generate JWT. | 3 |  |
| REST API endpoint authorization:   * Code used to restrict access to REST API endpoints. | 1 |  |
| REST API logout endpoint:   * Code used by logout endpoint. | 1 |  |
| **Total** | 14 |  |