**Assignment 3**

**Web Service API**

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1. **Admin Service API:**

**Description**: The Admin API handles functionalities related to the authentication of administrative users. Admins can view all appointments from of any resources (person or facility). Admins user are users native to our appointment systems and are stored in the application database.

**Operations**:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Operation** | **Description** | **Invocation** | **Accepted type** | **Return type** | **Parameters** | **Returned value** |
| Log in | Logging in for admin users | POST http://localhost:8081/admin/login | application/x-www-form-urlencoded | application/json | **username**: the username of the admin user  **password**: the password of the admin user | User object with authentication token |
| Log out (\*) | Logging out for admin users | POST http://localhost:8081/admin/logout | application/x-www-form-urlencoded | application/json | N/A | N/A |
| Authenticate | ? | POST http://localhost:8081/admin/auth | application/x-www-form-urlencoded | N/A | ? | ? |

(\*) Requires the following header:

* username: the username of the admin user (obtained from Log in)
* x-api-key: the authentication of the user (obtained from Log in)

1. **User Service API:**

**Description**: The User API handles functionalities related to the authentication of customers who wants to book appointment using our application. The registration and authentication process are handled by Google.

**Operations**:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Operation** | **Description** | **Invocation** | **Accepted type** | **Return type** | **Parameters** | **Returned value** |
| Log in | Redirection to Google Services to allow clients to login using SSO. | GET http://localhost:8081/user/login | N/A | N/A | ? | N/A |
| Get token | ? | GET http://localhost:8081/user/token | N/A | application/json | ? | ? |
| Log out (\*) | Logging out for admin users | POST http://localhost:8081/user/logout | application/x-www-form-urlencoded | application/json | N/A | N/A |
| Authenticate | ? | POST http://localhost:8081/user/auth | application/x-www-form-urlencoded | application/json | ? | ? |

1. **Resource Service API:**

**Description**: The User API handles functionalities related to the authentication of customers who wants to book appointment using our application. The registration and authentication process are handled by Google.

**Operations**:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Operation** | **Description** | **Invocation** | **Accepted type** | **Return type** | **Parameters** | **Returned value** |
| Log in | Redirection to Google Services to allow clients to login using SSO. | GET http://localhost:8081/user/login | N/A | N/A | ? | N/A |
| Get token | ? | GET http://localhost:8081/user/token | N/A | application/json | ? | ? |
| Log out (\*) | Logging out for admin users | POST http://localhost:8081/user/logout | application/x-www-form-urlencoded | application/json | N/A | N/A |
| Authenticate | ? | POST http://localhost:8081/user/auth | application/x-www-form-urlencoded | application/json | ? | ? |