

Artificially enhanced adaptive traffic control

SERVER ENDPOINTS MANUAL

Compiled by the Gradient Team for 5DT



Installation

- 1. Node incl. npm needs to be installed on machine
- 2. Extract lightbot_server from production-build zip
- 3. Run 'npm install' to download node modules not included
- 4. Set sensitive environment variables as per instructions available in readme
- 5. Execute the command 'npm serve'

Testing and Maintenance

- All maintenance is made easy due to the Model-View-Controller structured design
 - New routes can be added simply by adding them to the route manager
 - New data structures can be supported by creating schema models
 - New operations can be added via controllers with all generic operations such as mailing, authentication etc are available to any new operation as utilities and middleware's
- 2. Unit tests can be accessed within the /spec directory and run by executing the command 'npm test'. Expansions on these tests can be made simply by adding a new described test

Endpoints

- Currently supported endpoints are those of user (supporting the web application for client information management) and data (for operational data processing and visualisation) and can be accessed off the host URL http://localhost:8000
- 2. Any unsupported endpoints will return an Http Error 404 Resource not found
- 3. /user endpoint, properties, and operational use

Request	Path	Access	Description
GET	/register	Public	User
			registration
GET	/login	Public	User sign in
GET	/logout	Private	User sign
			out route
PUT	/update-password	Private	Update
			password
			from
			application
POST	/recover-password	Public	Password
			recovery
PUT	/reset-	Private	Email
	password/:passresetid		password
			reset
DELETE	/delete	Private	Delete
			account
GET	/list-user	Private	List other
			users

4. Data endpoints, properties, and operational use

Request	Path	Access	Description
GET	/ graph	Private	Get latest
			graph data
GET	/forum	Private	Get latest
			forum data
GET	/notification	Private	Get latest
			notifications
GET	/state	Private	Get latest
			state of
			system
POST	/post-forum	Private	Make a
			forum post
PUT	/post-	Private	Edit a forum
	forum/:forumpostid		post
DELETE	/delete-	Private	Delete a
	forum/:forumpostid		forum post

5. Examples of JSON data formats are as follows as well as an example of how data is returned:

Login:

```
"User_email": "u17058849@tuks.co.za",
    "User_password": "kittenpaws"
```

```
"success": {
    "status": 200,
    "message": "User login successful.",
    "data": {
        "User_name": "Mohammed",
        "User_state": 1,
        "User_state": 1,
        "User_role": 1,
        "Auth_key": "eylhbGcioiJIUzIINiIsInR5cCI6IkpXVCJ9.
        eyJ1c2VyIjp7ImlkIjoiNWYXOTM1NWU4MTgyYzk0OWE4NzFhMjRmIiwiVXNlcl9lbWFpbCI6InUxNzA1ODg0OUB0dWtzLmNvLnphIn0sImlhdCI6MTU5NTQ4Nzk2MCwiZXhwIjoxNTk1NTE2NzYwfQ.
        fGcT0VEKZSBZwupfVOgK36oOS_9QgmVjY6qL75bMCoA"
    }
}
```