1. **REST API Endpoints**

This subsection describes the various REST API Endpoints of the Fuldaflats.de server code. The client accesses these endpoints by sending asynchronous HTTP Requests (AJAX) and retrieves JSON formatted data back. Colons are used to mark path parameters like **:id**.

API Methods that are marked blue in these tables require a logged in user to work, otherwise they will just return a **403 Forbidden** status code.

**User related endpoints**

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| **Method** | **Path** | **Description** |
| **POST** | /api/users/auth | Authenticate current Session with login data |
| **POST** | /api/users | Create a new User (Registration functionality) with given JSON data in the body |
| **GET** | /api/users/me | Retrieve own user data (when logged in) |
| **PUT** | /api/users/me | Manipulate own user data (when logged in) with given JSON data in the body |
| **GET** | /api/users/:id | Get user data of user with :id (PRIO 2, for future use) |
| **DELETE** | /api/users/auth | Logout (delete authentication in current session) |

**Offer related endpoints**

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| **Method** | **Path** | **Description** |
| **POST** | /api/offers/search | Most important API function of the application. Search for a list of offers based on search criteria that is sent in the body in JSON format. |
| **GET** | /api/offers/recent | Get list of recent offers |
| **GET** | /api/offers/:id | Get detailed information on the offer with given :id. (More information when session is authenticated) |
| **POST** | /api/offers | Create a new offer with given JSON data in the body. Requires the account to be upgraded to landlord. |
| **PUT** | /api/offers/:id | Manipulate the data of the offer with given :id with given JSON data in the body under the prerequisite that the offer is owned by the currently logged in user |
| **DELETE** | /api/offers/:id | Delete the offer with given :id und the prerequisite that the offer is owned by the currently logged in user |
| **POST** | /api/offers/:id/review | Post a review for the offer with the given :id when a user is logged in |
| **DELETE** | /api/offers/:id/review | Delete a posted review for offer with given :id with the prerequisite that the review was created by the currently logged in user |
| **PUT** | /api/offers/:id/favorite | Mark the offer with given :id as favorite for the currently logged in user |
| **DELETE** | /api/offers/:id/favorite | Unmark the offer with given :id as favorite for the currently logged in user |

**File upload related endpoints**

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| **Method** | **Path** | **Description** |
| **POST** | /api/files | Upload a file as multipart/form-data onto the file server system. Retrieve the MediaObject link when the upload is completed |
| **GET** | /uploads/:filename | Get the uploaded file with given :filename (this is the link that is stated in the MediaObject responses) |
| **DELETE** | /uploads/:filename | Delete file resource with given :filename from the server, given it was uploaded by the currently logged in user |