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| --- | --- | --- | --- | --- |
| **BE Services** | **Method** | **Resources** | **Request (Schema)** | **Response**  **(Schema)** |
| Authentication | POST | /authentication | UserAuth | {token} |
| Users management | GET | /users |  | [User] |
| GET | /users/{user\_id} |  | User |
| POST | /users | User |  |
| PUT | /users/{user\_id} | User |  |
| DELETE | /users/{user\_id} |  |  |
| Products management | GET | /products |  | [Product] |
| GET | /products/{product\_id} |  | Product |
| POST | /products | Product |  |
| PUT | /products/{product\_id} | Product |  |
| DELETE | /products/{product\_id} |  |  |
| News management | GET | /news |  | [New] |
| GET | /news/{new\_id} |  | New |
| POST | /news | New |  |
| PUT | /news/{new\_id} | New |  |
| DELETE | /news/{new\_id} |  |  |
| Market management | GET | /markets |  | [Market] |
| GET | /markets/{market\_id} |  | Market |
| POST | /markets | Market |  |
| PUT | /markets/ | Market |  |
| DELETE | /markets/{market\_id} |  |  |
| Feedback management | GET | /feedbacks |  | [Feedback] |
| GET | /feedbacks/{product\_id}/{user\_id} |  | Feedback |
| GET | /feedbacks/{product\_id} |  | [Feedback] |
| POST | /feedbacks | Feedback |  |
| PUT | /feedbacks/{product\_id}/{user\_id} | Feedback |  |
| DELETE | /feedback/{product\_id} |  |  |
| DELETE | /feedback/{product\_id}/{user\_id} |  |  |
| Statistics  management | GET | /stats |  | [Stats] |
| GET | /stats/{stat\_id} |  | Stats |
| GET | /stats/latest |  | Stats |
| POST | /stats | Stats |  |
| PUT | /stats/{stat\_id} | Stats |  |
| DELETE | /stats/{stat\_id} |  |  |
| Maps  Management | GET | /maps/{location} |  | {[location\_details]} |
| MarketProducts  sInStock  management | GET | /market\_products |  | [ProductStockInMarket ] |
| GET | /market\_products/{market\_id} |  | [ProductStockInMarket ] |
| GET | /market\_products/{market\_id}/{product\_id} |  | ProductStockInMarket |
| POST | /market\_products | ProductStockInMarket |  |
| PUT | /market\_products/{market\_id} | ProductStockInMarket |  |
| DELETE | /market\_products/{market\_id} |  |  |
| DELETE | /market\_products/{market\_id}/{product\_id} |  |  |
| UserSavedProducts  management | GET | /user\_products |  | [ ProductSavedByUser ] |
| GET | /user\_products/{user\_id} |  | [ ProductSavedByUser ] |
| GET | /user\_product/{user\_id}/{product\_id} |  | ProductSavedByUser |
| POST | /user\_products | ProductSavedByUser |  |
| PUT | /user\_products/{user\_id} | ProductSavedByUser |  |
| DELETE | /market\_products/{user\_id} |  |  |
| DELETE | /market\_products/{user\_id}/{product\_id} |  |  |

**Operational Schemas**

UserAuth: {id,username,password}

**BO Schemas**

User: {user\_id,username, email, photo\_url}

Product: {product\_id, name, [details]}

News: {news\_id, title, source, main\_text, image\_url}

Market: {market\_id, name, location}

Feedback: {feedback\_id, product\_id, user\_id}

Stats: {stats\_id, [stats]}

ProductStockInMarket: {product\_stock\_in\_market\_id, market\_id, product\_id, quantity}

ProductSavedByUser: {product\_saved\_by\_user\_id, user\_id, product\_id}