Django Back-End REST API Documentation

- Starting the Django Back-End
 - Navigate to the back-end directory → cd application/backend/project
 - Initialise python virtual environment → python -m venv venv
 - Activate python virtual environment → venv/Scripts/activate
 - o Install all dependencies → pip install -r requirements.txt
 - Create a new .env file with the following variables
 - ENVIRONMENT="DEVELOPMENT"
 - DJANGO_SECRET_KEY="yaRF6LbTNXxYsjZILFjPYhLlNtPjaXYXhuhlG gvNCSFJ4j3Wunzfjq9ktVv71jSM"
 - DJANGO_JWT_SIGNING_KEY="eeM4FDLiN5jCcSVf4WoTKjgephBkR8x jwx5YYFgDEzmrJWNJwBh6txMN3XvZ8j7S"
 - DJANGO_JWT_ALGORITHM="HS512"
 - DJANGO JWT LIFETIME="14"
 - DJANGO_BACKEND_URL="http://127.0.0.1:8000"
 - DJANGO DEBUG="True"
 - GMAP_SECRET="AlzaSyA8dLw5Ucv1Nyc5GMgzviVX-i8fxmjvu2M"
 - GEMINI_API="AlzaSyCiDY26tqvfy0ITtilmWoDKcMjil4tjl2U"
 - Run the back-end server → python manage.py runserver
- Accessing the Back-End Documentation
 - If you have ran the django server
 - In the browser, navigate to http://127.0.0.1:8000/documentation/
 - If you are not running the django server
 - In the browser, navigate to our live deployed back-end documentation at https://studybuddvbe.up.railwav.app/documentation/
 - Enter the admin credentials
 - Username = 'admin'
 - Password = 'admin'
 - Main documentation created will be those for 'models' and 'views'
- Accessing the Admin Console
 - If you have ran the django server
 - In the browser, navigate to http://127.0.0.1:8000/admin/
 - If you are not running the django server
 - In the browser, navigate to our live deployed back-end documentation at https://studybuddybe.up.railway.app/admin/
 - Enter the admin credentials
 - Username = 'admin'
 - Password = 'admin'

- 1. Users \rightarrow /api/users/...
 - 1.1. POST /api/users/auth/login/ → Login a user, obtain access token
 - Body
 - "username": "<string>"
 - "password": "<string>"
 - 1.2. POST /api/user/auth/refresh/ → Obtain new access token
 - Header
 - "Authorization": "Bearer <access token>"
 - Body
 - "refresh": "<refresh token>
 - 1.3. POST /api/users/auth/register/ → Register a new user
 - Body
 - "username": "<string>"
 - "password1": "<string>"
 - "password2": "<string>"
 - "email": "<email>"
 - 1.4. GET /api/users/profile/ \rightarrow Get the user's profile
 - Header
 - "Authorization": "Bearer <access token>"
 - 1.5. POST /api/users/profile/ → Update the user's profile
 - Header
 - "Authorization": "Bearer <access token>"
 - Body
 - "first_name": "<string>"
 - "last name": "<string>"
 - "email": "<email>"
 - "mobile number": "+<numbers>"
- 2. Bookings \rightarrow /api/bookings/...
 - 2.1. GET /api/bookings/ \rightarrow Get all the user's bookings
 - Header
 - "Authorization": "Bearer <access token>"
 - 2.2. POST /api/bookings/ \rightarrow Create a new booking for the user
 - Header
 - "Authorization": "Bearer <access token>"
 - Body
 - "date": "<date in YYYY-MM-DD>"
 - "start_time": "<time in HH:MM>"
 - "end time": "<time in HH:MM>"
 - "study_area": <pk for study area>

- 2.3. GET /api/bookings/<int:pk>/ \rightarrow Get a specific booking from the user Header • "Authorization": "Bearer <access token>" Key pk: <integer for booking pk> 2.4. PUT /api/bookings/<int:pk>/ → Update specific booking from the user Header "Authorization": "Bearer <access token>" Body "date": "<date in YYYY-MM-DD>" "start_time": "<time in HH:MM>" "end time": "<time in HH:MM>" Key pk: <integer for booking pk> 2.5. DELETE /api/bookings/<int:pk>/ → Delete a specific booking from the user Header "Authorization": "Bearer <access token>" ■ Key pk: <integer for booking pk> Cart \rightarrow /api/cart/... 3.1. GET /api/cart/ \rightarrow Get the user's cart Header "Authorization": "Bearer <access token>" 3.2. POST /api/cart/ \rightarrow Add a product to the user's cart Header • "Authorization": "Bearer <access token>" Body "product": <integer for product pk> "quantity": <integer> PUT /api/cart/ \rightarrow Edit an item in the user's cart 3.3. Header "Authorization": "Bearer <access token>" Body "product": <integer for product pk> "quantity": <integer>
 - 3.4. POST /api/cart/checkout/ → Checkout the user's cart
 - Header
 - "Authorization": "Bearer <access token>"
 - Body

3.

- "address": "<string>"
- "postal_code": "<string of 6 characters>"

- 4. Orders \rightarrow /api/orders/...
 - 4.1. GET /api/orders/ → Get the user's confirmed orders
 - Header
 - "Authorization": "Bearer <access token>"
 - 4.2. GET /api/orders/<int:pk>/ \rightarrow Get a specific order from the user
 - Header
 - "Authorization": "Bearer <access token>"
 - Key
 - pk: <integer for order pk>
- 5. Products \rightarrow /api/products/...
 - 5.1. GET /api/products/ \rightarrow Get all available products
 - 5.2. GET /api/products/<int:pk>/ \rightarrow Get a specific product
- 6. Study Areas → /api/study areas/...
 - 6.1. GET /api/study_areas/ → Get all available study areas
 - 6.2. GET /api/study_areas?lat=<float:lat>&lng=<float:lng> → Get all available study areas with distance field calculated using given coordinates
 - 6.3. GET /api/study areas/<int:pk>/ \rightarrow Get a specific study area
 - 6.4. GET /api/study_areas/<int:pk>/?lat=<float:lat>&lng=<float:lng> → Get a specific study area with distance field calculated using given coordinates
- 7. Buddy AI \rightarrow /api/buddyai/
 - 7.1. POST /api/buddyai/ → Ask buddy AI a question
 - Header
 - "Authorization": "Bearer <access token>"
 - 7.2. Body
 - "question": "<string>"