

API DOCUMENT

Product/Project Title: Qurb App

Project Team Members:

1. Mohammad Affan Ullah Habib (mh06358)
2. Syed Muhammad Daniyal Murtaza Zaidi (sz06880)
3. Syed Muhammad Hussain (sh06892)

Here is our API document for our neighborhood social media app made with Flutter and Firebase that includes the features of signing up, logging in, posting, liking and commenting on posts, following different users, and searching for users.

We are employing these APIs in our social media app:

1. Firebase Authentication API - for user authentication and identity management.
2. Firebase Realtime Database API - for storing and syncing data in real-time.
3. Firebase Cloud Firestore API - for storing and querying structured data in real-time.
4. Firebase Storage API - for storing and serving user-generated content.

Qurb App API Documentation

Authentication API

POST /api/v1/auth/signup

Registers a new user account.

Request body:

```
{  
  "email": "affanhabib@example.com",  
  "password": "password123"  
}
```

Response:

```
{  
  "status": "success",  
  "data": {  
    "user_id": "12345",  
    "access_token":  
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJlbWFpbCI6ImppvaG5kb2VAZXhhbXBsZS5jb20iLCJpYXQiOiJlMjg5MzQ1MDIsImV4cCI6MTYyOTA0OTQwMn0.TXyZ"  
  }  
}
```

POST /api/v1/auth/login

Logs in an existing user.

Request body:

```
{  
  "email": "affanhabib@example.com",  
  "password": "password123"
```

```
}
```

Response:

```
{
```

```
  "status": "success",
```

```
  "data": {
```

```
    "user_id": "12345",
```

```
    "access_token":
```

```
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJlbWFpbCI6ImRpvaG5kb2VAZXhhbXBsZS5jb20iLCJpYXQiOiJlY2Mjg5MzM0MDIsImV4cCI6MTYyOTA0OTQwMn0.TXyZh1D"
```

```
  }
```

```
}
```

Realtime Database API

GET /api/v1/posts

Returns a list of all posts.

Response:

```
{
```

```
  "status": "success",
```

```
  "data": [
```

```
    {
```

```
      "id": "12345",
```

```
      "user_id": "67890",
```

```
      "text": "This is a post.",
```

```
      "timestamp": "2022-03-01"
```

```
    },
```

```
  ]
```

```
"id": "67890",
"user_id": "12345",
"text": "This is another post.",
"timestamp": "2022-03-02"
}
]
```

POST /api/v1/posts

Creates a new post.

Request body:

```
{
  "user_id": "12345",
  "text": "This is a new post."
}
```

Response:

```
{
  "status": "success",
  "data": {
    "id": "24680",
    "user_id": "12345",
    "text": "This is a new post.",
    "timestamp": "2022-03-03"
  }
}
```

PUT /api/v1/posts/:id/like

Likes a post.

Request parameters:

- **id** - The ID of the post to like.

Request body:

```
{  
  "user_id": "67890"  
}
```

Response:

```
{  
  "status": "data": {  
    "likes": [  
      "12345",  
      "67890"  
    ]  
  }  
}
```

PUT /api/v1/posts/:id/comment

Adds a comment to a post.

Request parameters:

- **id** - The ID of the post to comment on.

Request body:

```
{  
  "user_id": "67890",  
  "text": "This is a comment."  
}
```

Response:

```
{
```

```
"status": "success",
"data": {
  "id": "13579",
  "user_id": "67890",
  "text": "This is a comment.",
  "timestamp": "2022-03-04"
}
}
```

GET /api/v1/users/:id/followers

Returns a list of all followers for a user.

Request parameters:

- **id** - The ID of the user.

Response:

```
{
  "status": "success",
  "data": [
    {
      "id": "12345",
      "name": "Syed Daniyal"
    },
    {
      "id": "67890",
      "name": "Affan Habib"
    }
  ]
}
```

Cloud Firestore API

GET /api/v1/users/search

Searches for users by name.

Request parameters:

- **q** - The search query.

Response:

```
{
  "status": "success",
  "data": [
    {
      "id": "12345",
      "name": "Syed Daniyal"
    },
    {
      "id": "67890",
      "name": "Affan Habib"
    }
  ]
}
```

Storage API

POST /api/v1/images

Uploads an image to storage.

Request body:

```
{
  "image": "... (image data)"
}
```

```
}
```

Response:

```
{
```

```
  "status": "success",
```

```
  "data": {
```

```
    "url": "https://storage.googleapis.com/my-bucket/images/12345.png"
```

```
  }}
```

NOTE:

We have tried our very best to cover the basic endpoints for our Flutter and Firebase app in this API reference, such as user login, posting, like and commenting on posts, following multiple users, and searching for users.