Authentication APIs

### **1. User Signup**

**Endpoint:** POST /api/signup  
 **Payload:**

{

"username": "JohnDoe",

"mobile": "9876543210",

"email": "john@example.com",

"password": "Password123",

"confirmPassword": "Password123"

}

Expected Response:

{

"message": "User registered successfully",

"user": {

"id": 1,

"username": "JohnDoe",

"email": "john@example.com"

}

}

**Integration:**

this.http.post('/api/signup', formData)

2. **User Login**

**Endpoint: POST /api/login**

**Payload:**

{

"email": "john@example.com",

"password": "Password123"

}

**Expected Response:**

{

"user": {

"id": 1,

"username": "JohnDoe",

"email": "john@example.com"

},

"token": "JWT\_TOKEN\_STRING"

}

**Integration (NgRx Effect Example):**

login$ = createEffect(() =>

this.actions$.pipe(

ofType(login),

switchMap(({ email, password }) =>

this.authService.login(email, password).pipe(

map(user => loginSuccess({ user })),

catchError(error => of(loginFailure({ error })))

)

)

)

);

**3. Get All Products**

**Endpoint: GET /api/products**

**Response:**

[

{

"id": 1,

"title": "Product 1",

"price": 100,

"description": "Product description",

"category": "Category A",

"image": "image\_url.jpg"

},

]

**Integration:**

this.http.get<Product[]>('/api/products')

4. **Get Product By ID**

Endpoint: GET /api/products/:id  
 Example: /api/products/1

Response: (Same as single item above)

**Integration:**

this.http.get<Product>(`/api/products/${id}`)

### **5. Update Product**

**Endpoint:** PUT /api/products/:id  
 **Payload:**

{

"title": "Updated Product",

"price": 200,

"description": "Updated description",

"category": "Category B",

"image": "new\_image.jpg"

}

**Response:**

{

"message": "Product updated",

"product": { ... }

}

**Integration:**

this.http.put<Product>(`/api/products/${product.id}`, updatedProduct)

| **Feature** | **Method** | **Endpoint** | **Notes** |
| --- | --- | --- | --- |
| Signup | POST | /api/signup | Validates password match |
| Login | POST | /api/login | Returns user + token |
| Get All Products | GET | /api/products | Use on product list page |
| Get Product By ID | GET | /api/products/:id | Used for edit/details view |
| Update Product | PUT | /api/products/:id | Partial or full update allowed |