

Here's a formatted version of your User Service API Testing document:

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# User Service API Testing

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**Base URL:** `http://localhost:5001/api/v1/users`

## 1. Create User

Endpoint

**POST:** `/api/v1/users`

Test Cases

### a) New User Creation

- **Request Body:**

```
{
  "username": "vinay12e",
  "email": "vinay123@gmail.com",
  "password": "vinay@12345",
  "country": "India",
  "state": "AP"
}
```

- **Expected Response:**

```
{
  "id": "66cf0d427db3ad732f4a02a9",
  "username": "vinay12e",
  "email": "vinay123@gmail.com",
  "password": "vinay@12345",
  "country": "India",
  "state": "AP"
}
```

### b) Duplicate Username

- **Request Body:**

```
{
  "username": "vinay12",
  "email": "vinay123@gmail.com",
}
```

```
"password": "vinay@12345",  
"country": "India",  
"state": "AP"  
}
```

- **Expected Response:**

```
{  
  "message": "Username already exists"  
}
```

### c) Duplicate Email

- **Request Body:**

```
{  
  "username": "vinay123",  
  "email": "vinay123@gmail.com",  
  "password": "vinay@12345",  
  "country": "India",  
  "state": "AP"  
}
```

- **Expected Response:**

```
{  
  "message": "Email already exists"  
}
```

## 2. Get User by Username

### Endpoint

**GET:** `/api/v1/users/{username}`

- **Example:** GET `http://localhost:5001/api/v1/users/vinay12`

### Test Cases

#### a) User Exists

- **Expected Response:**

```
{
  "id": "1",
  "username": "vinay12",
  "email": "vinay@gmail.com",
  "password": "vinay@12345",
  "country": "India",
  "state": "AP"
}
```

## b) User Does Not Exist

- **Expected Response:**

```
{
  "message": "User not found with username: vinay12123"
}
```

## 3. Update User

### Endpoint

**PUT:** `/api/v1/users/{username}`

- **Example:** PUT `http://localhost:5001/api/v1/users/vinay123`

### Test Cases

#### a) User Exists

- **Request Body:**

```
{
  "username": "vinay7032",
  "email": "vinay123@gmail.com",
  "password": "vinay@12345",
  "country": "India",
  "state": "AP"
}
```

- **Expected Response:**

```
{
  "id": "1",
  "username": "vinay7032",
  "email": "vinay123@gmail.com",

```

```
"password": "vinay@12345",  
"country": "India",  
"state": "AP"  
}
```

## b) User Does Not Exist

- **Request Body:**

```
{  
  "username": "vinay7032",  
  "email": "vinay123@gmail.com",  
  "password": "vinay@12345",  
  "country": "India",  
  "state": "AP"  
}
```

- **Expected Response:**

```
{  
  "message": "User not found with username: vinay12123"  
}
```

## 4. Update Password

### Endpoint

**PUT:** `/api/v1/users/{username}/password`

- **Example:** PUT `http://localhost:5001/api/v1/users/vinay123/password`

### Test Cases

#### a) User Exists

- **Request Body:**

```
{  
  "password": "Vinay@1234"  
}
```

- **Expected Response:** No response expected.

#### b) User Does Not Exist

- **Request Body:**

```
{  
  "password": "Vinay@1234"  
}
```

- **Expected Response:**

```
{  
  "message": "User not found with username: vinay123"  
}
```

## 5. Delete User

### Endpoint

**DELETE:** `/api/v1/users/{username}/`

- **Example:** DELETE `http://localhost:5001/api/v1/users/vinay123/`

### Test Cases

#### a) User Exists

- **Request Body:** No request body.
- **Expected Response:** No response expected.

#### b) User Does Not Exist

- **Request Body:** No request body.
- **Expected Response:**

```
{  
  "message": "User not found with username: vinay123"  
}
```