

CSE471 : System Analysis and Design Lab Assignment on API Development and Postman

Project Title : Nirapod

Group Number: 08

Backend Framework: Spring Boot

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Section: 09

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APIs of Feature - 01 (Login)

1. **Manual Login** - The user will provide their username and password to log in to the website. After Providing the password it will redirect to the OTP page

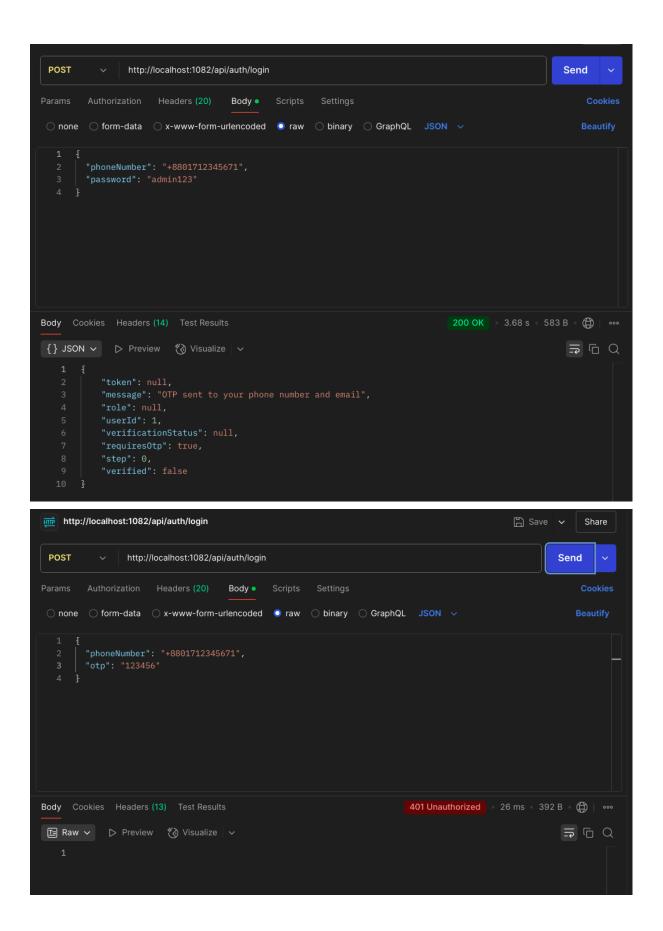
```
@PostMapping("/login")
public ResponseEntity<?> login(@RequestBody Map<String, String> loginRequest) {
    String phoneNumber = loginRequest.get("phoneNumber");
    String password = loginRequest.get("password");

    Optional<User> userOpt = userService.findByPhoneNumber(phoneNumber);

if (userOpt.isEmpty()) {
    return ResponseEntity.status(HttpStatus.UNAUTHORIZED).body(body:"Invalid credentials");
    }

    User user = userOpt.get();

// Check password - handle both BCrypt and plain text
boolean passwordMatches = false;
try {
    // First try BCrypt matching
    passwordMatches = password.equals(user.getPassword());
```



APIs of Feature - 02 (HomePage)

Here only the blank frontpage is showing

```
@GetMapping
public ResponseEntity<Map<String, Object>> home() {
    Map<String, Object> response = new HashMap<>();
    response.put("status", "success");
    response.put("message", "Nirapod API is running");
    response.put("api_version", "1.0");
    response.put("documentation", "/swagger-ui.html (if configured)");

    return ResponseEntity.ok(response);
}

@GetMapping("/health")
public ResponseEntity<Map<String, String>> healthCheck() {
    Map<String, String> status = new HashMap<>();
    status.put("status", "UP");
    return ResponseEntity.ok(status);
}
```

