

# Test Plan - Online Medical System

## Test File: AppointmentTest.php

### Identifier: APPOINTMENT-SUCCESS-TEST

**Test Case:** The system shall successfully connect to the database and create an appointment when valid parameters are provided.

#### Preconditions:

1. The database is available and can be accessed.
2. The necessary PHP dependencies are properly configured.
3. The necessary web server environment is set up.
4. The doctor and patient accounts exist in the database.
5. The provided date and time are available for scheduling.

#### Input Values:

1. Date and Time: "2023-04-20T08:30"
2. Doctor: "Rodriguez"
3. Password: "yuan0000"

#### Execution Steps:

1. Ensure the necessary environment and dependencies are set up.
2. Execute the `testSuccess()` method in the `AppointmentTest` class.

**Expected Results:** The system should return `True`, indicating a successful appointment creation.

**Postconditions:** An appointment is created for the provided date and time, and the doctor's available time is updated accordingly.

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### Identifier: APPOINTMENT-FAILURE-INVALID-DATE-TYPE-TEST

**Test Case:** The system shall reject the appointment creation when an invalid date type is provided.

#### Preconditions:

1. The database is available and can be accessed.
2. The necessary PHP dependencies are properly configured.
3. The necessary web server environment is set up.

#### Input Values:

1. Date and Time: 2023-04-03 (invalid date type)
2. Doctor: "Johnson"
3. Password: "yuan0000"

**Execution Steps:**

- 1. Ensure the necessary environment and dependencies are set up.
- 2. Execute the `testFailure_1()` method in the `AppointmentTest` class.

**Expected Results:** The system should return `False`, indicating a failed appointment creation due to an invalid date type.

**Postconditions:** No appointment is created, and the doctor's available time remains unchanged.

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**Identifier: APPOINTMENT-FAILURE-INVALID-DATE-FORMAT-TEST**

**Test Case:** The system shall reject the appointment creation when an invalid date format is provided.

**Preconditions:**

- 1. The database is available and can be accessed.
- 2. The necessary PHP dependencies are properly configured.
- 3. The necessary web server environment is set up.

**Input Values:**

- 1. Date and Time: '2023/04/03' (invalid date format)
- 2. Doctor: "Johnson"
- 3. Password: "yuan0000"

**Execution Steps:**

- 1. Ensure the necessary environment and dependencies are set up.
- 2. Execute the `testFailure_2()` method in the `AppointmentTest` class.

**Expected Results:** The system should return `False`, indicating a failed appointment creation due to an invalid date format.

**Postconditions:** No appointment is created, and the doctor's available time remains unchanged.

Test Identifier	Expected Outcome	Actual Outcome
APPOINTMENT-SUCCESS-TEST	True	True
APPOINTMENT-FAILURE-INVALID-DATE-TYPE-TEST	False	False
APPOINTMENT-FAILURE-INVALID-DATE-FORMAT-TEST	False	False