

# Open

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# Project Objective

- Create a test script to automate the test scenario and generate the reports for Hospital Management Website.

# High-Level Framework Explanation

## Key Components & Features



### POM Design (Page Object Model):

Each page has its own class containing locators and methods to interact with that page, promoting code reusability and readability.



### Utilities:

- **ExcelUtil:** Read test data and write test results.
- **ConfigReader:** Fetch data like URL, credentials from config.properties.
- **LoggerUtil:** Log important events using Log4j or java.util.logging.
- **ExtentReportManager:** Generates custom reports with test step logs, screenshots, and statuses.
- **ScreenshotUtil:** Captures screenshots on test failure (used in conjunction with ITestResult).
- **RetryAnalyzer:** Automatically retries failed tests using IRetryAnalyzer.



## Test Cases:

- Test classes are independent, modular, and follow POM. Each test:
- Navigates through **at least 2 pages**.
- Has **assertions** to validate expected outcomes.
- Includes both **positive and negative test cases**.



## Test Execution:

- **TestNG**: Drives the execution flow, handles retry logic, listeners, and dependencies.
- **Cucumber**: BDD support with feature files and step definitions.
- **ExtentReports**: Custom visual reports with test status, screenshots, and logs.
- **Screenshot on Failure**: Implemented via ITestResult in TestNG.

# Tech Stacks Used

- Java
- Selenium WebDriver
- TestNG (Test Next Generation)
- Cucumber
- Apache POI
- ExtentReports
- Log4j / java.util.logging
- Maven

# Benefits of Tech Stacks

## Java

- Platform Independent,
- Robust OOP Support,
- Large Community & Libraries

## Selenium WebDriver

- Supports Multiple Browsers & Platforms,
- Open Source ,
- Flexible & Customizable

## TestNG

- Readable Test Scenarios,
- Reusability of Steps,
- Integration Friendly

## Cucumber

- Readable Test Scenarios,
- Reusability of Steps,
- Integration Friendly

## Apache POI

- Readable Test Scenarios,
- Reusability of Steps,
- Integration Friendly

## ExtentReports

- Interactive Reports,
- Screenshot Integration,
- Custom Branding



## **Log4j / java.util.logging**

- Debugging Aid ,
- Configurable Output,
- Lightweight & Fast



## **Maven**

- Automated Dependency Management,
- Standardized Project Structure

# Modules

- ◆ 1. Login as inpatient Ward
- ◆ 2. Register a patient
- ◆ 3. Find Patient Record
- ◆ 4. Manage Service Types
- ◆ 5. Manage Appointments
- ◆ 6. Manage Appointment Blocks
- ◆ 7. Capture Vitals for Patient
- ◆ 8. Edit Patient details

# 1. Login as inpatient Ward

## Test Steps:

- Navigate to the application URL.
- Enter **Username** and **Password**.
- Select the **Location** from the dropdown as
- Click on the **Login** button.

## Tested With:

### Valid Credentials:

- Expected Result: User is successfully logged in and redirected to the dashboard.
- Actual Result: Login successful; location-specific dashboard displayed.

### Invalid Credentials:

- Expected Result: User receives an error message indicating incorrect username or password.
- Actual Result: Proper error message displayed, preventing login.

## 2. Register a patient

### Test Steps:

- Navigate to the application URL.
- Login to the application using **Username** and **Password**.
- Click on "**Register a Patient**" option.
- Fill in all required patient details (e.g., name, gender, birthdate, address, contact info).
- Click on **Confirm** to complete registration.

### Tested With:

- **Valid Credentials:**

Expected Result: Login is successful, patient registration is completed, and a confirmation message is displayed.

Actual Result: Patient successfully registered and confirmation page appears.

- **Invalid Credentials:**

Expected Result: Registration fails with an appropriate error message.

Actual Result: Application displays a proper error message and does not allow access to registration.

### 3. Find Patient Record

#### Test Steps:

- Navigate to the application URL.
- Login to the application using **Username** and **Password**.
- Click on "**Find Patient Record**".
- Perform a search using **Patient ID** or **Patient Name**.

#### Tested With:

- **Valid Credentials:**

Expected Result: Login is successful; the system displays matching patient records based on ID or name.  
Actual Result: Patient records are accurately retrieved and displayed.

- **Invalid Credentials:**

Expected Result: Cannot find the patient with invalid data  
Actual Result: Patient is not displayed

## 4. Manage Service Types

### Test Steps:

- Navigate to the application URL.
- Login to the application using **Username** and **Password**.
- Go to **Appointment Scheduling > Manage Service Types**.
- Click on "**New Service Type**".
- Enter the **Service Name** and relevant details.
- Click on **Save** to add the new service type.

### Tested With:

- **Valid Credentials:**

Expected Result: Login is successful; new service type is added and displayed in the service list.

Actual Result: Service type successfully created and listed under Manage Service Types.

- **Invalid Credentials:**

Expected Result: Adding new service type attempt fails with an appropriate error message.

Actual Result: Service type is not created and displays an error message.

## 5. Manage Appointments

### Test Steps:

- Navigate to the application URL.
- Login to the application using **Username** and **Password**.
- Go to **Appointment Scheduling > Manage Appointments**.
- In the search bar, enter "**Je**" to filter patients by name.
- Select any one of the filtered patients.
- Proceed to **schedule or manage appointments** for the selected patient.

### Tested With:

- **Valid Credentials:**

Expected Result: Login is successful; patient list is filtered by name, and appointments can be scheduled or managed.

Actual Result: Application displays matching patient names (e.g., names starting with "Je"). Appointment management functionality works as expected.

- **Invalid Credentials:**

Expected Result: Appointments cannot be scheduled or managed and an error message is shown.

Actual Result: Appointments are not managed and gives an error message.

## 6. Manage Appointment Blocks

### Test Steps:

- Navigate to the application URL.
- Login to the application using Username and Password.
- Go to Appointment Scheduling > Manage Appointment Blocks.
- Click on the Calendar to select a date and time slot.
- Click on "Create Appointment Block".
- Fill in the required details (e.g., provider, location, time).
- Click Save to create the block.

### Tested With:

- **Valid Credentials:**

Expected Result: Login successful; appointment block is created and visible on the calendar.

Actual Result: Appointment block successfully created and displayed on the selected date.

- **Invalid Credentials:**

Expected Result: Appointment block is not created and not visible on the calendar.

Actual Result: Appointment block is not created and a clear error message is shown.

## 7. Capture Vitals for Patient

### Test Steps:

- Navigate to the application URL.
- Login to the application using **Username** and **Password**.
- Click on "**Capture Vitals for Patient**".
- Select any patient from the list.
- Enter the required **vital signs** (e.g., temperature, pulse, blood pressure, weight, height).
- Click **Save** to record the vitals.

### Tested With:

- **Valid Credentials:**

Expected Result: Login is successful; vitals are recorded and saved for the selected patient.

Actual Result: Application accepts and stores patient vitals correctly. Confirmation is displayed.

- **Invalid Credentials:**

Expected Result: Capturing vitals fails with an appropriate error message.

Actual Result: Vitals are not captured and displays an informative login error.

## 8. Edit Patient details

### Test Steps:

- Navigate to the application URL.
- Login to the application using **Username** and **Password**.
- Click on "**Find Patient Record**".
- Perform a search using **Patient ID** or **Patient Name**.
- Click on any patient from the search results.
- Click on "**Edit Registration**".
- Modify the required patient details (e.g., name, address, phone number).
- Click **Save** to update the registration information.

### Tested With:

- **Valid Credentials:**

Expected Result: Login is successful; patient details are editable and saved after modification.

Actual Result: Patient registration details updated successfully and changes reflected immediately.

- **Invalid Credentials:**

Expected Result: Edit attempt fails with a relevant error message.

Actual Result: Patient details are not edited successfully.

# Our Management Team

Briefly elaborate on what you want to discuss.

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**Ananya Kumar**

Chief Executive Officer



**Raja Sinha**

Chief Finance Officer



**Binita Das**

Director



**Akash Tiwari**

Accountant



**Rani Bhaduria**

Finance Manager

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# Financial Guidance

Briefly elaborate on what you want to discuss.

*Rupee amounts are in millions		FY '25	FY '26	YOY change
Revenue	₹ 000	₹ 000	%	
Expenses				
Profit				
Dividend/share				

Customise this table! Just right-click on any cell to see all the available table functions.

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# Connect with us.



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Social Media

**@reallygreatsite**



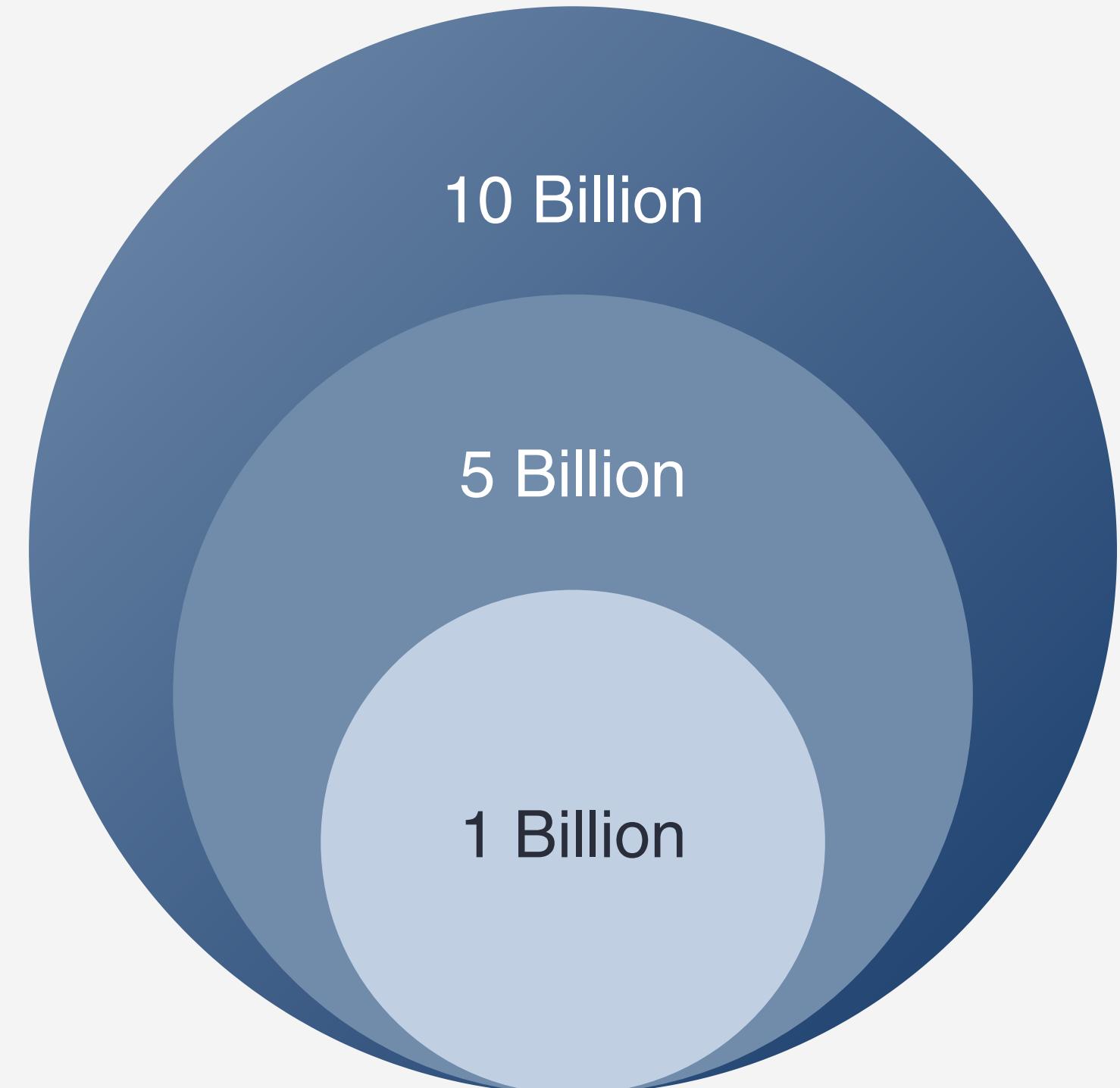
Call us

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# Our Market

Briefly elaborate on what you want to discuss.

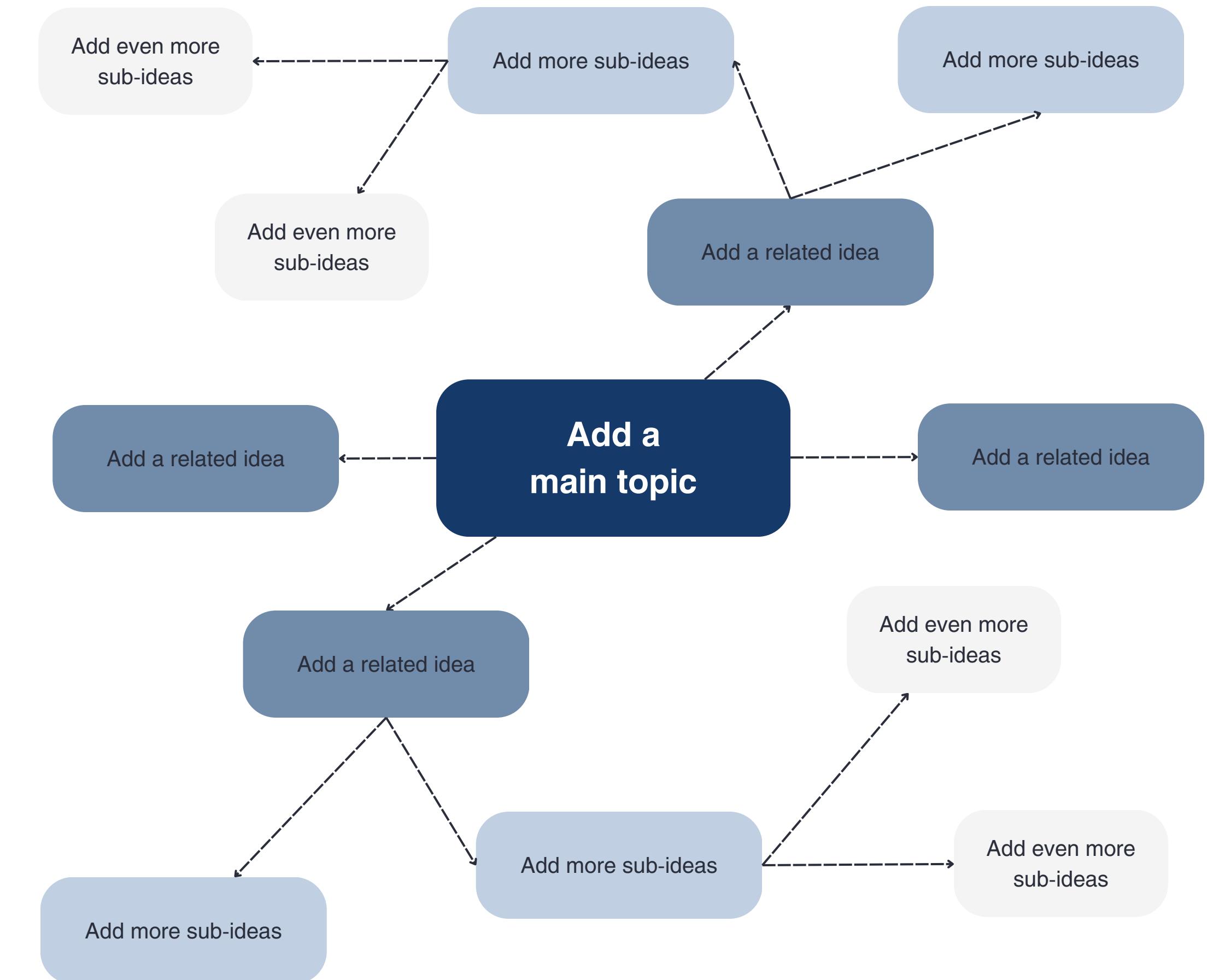


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# Collaborate on a Whiteboard

**Tip:** Collaboration makes teamwork easier! Click "Share" and invite your teammates to fill this up. Use this page for bulletins, brainstorms, and other fun team ideas.

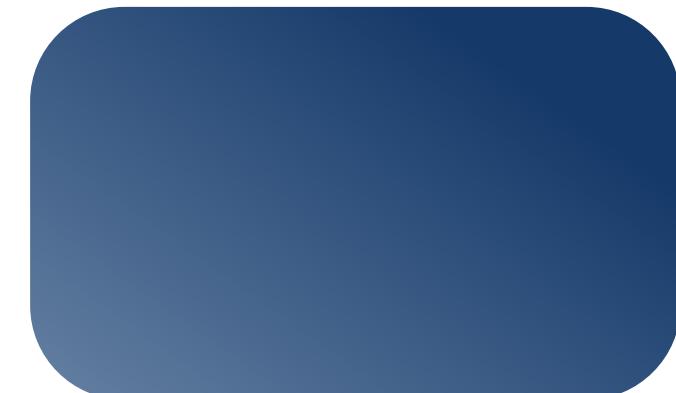
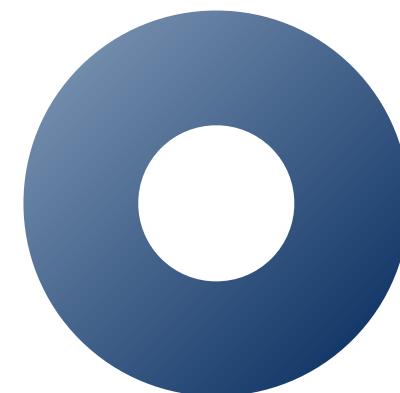
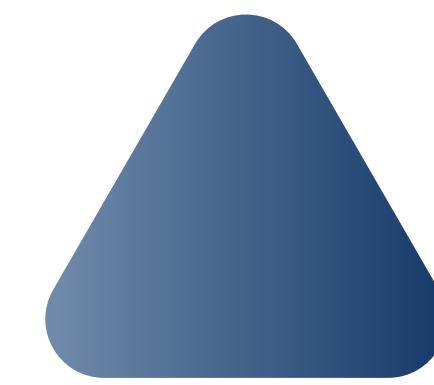
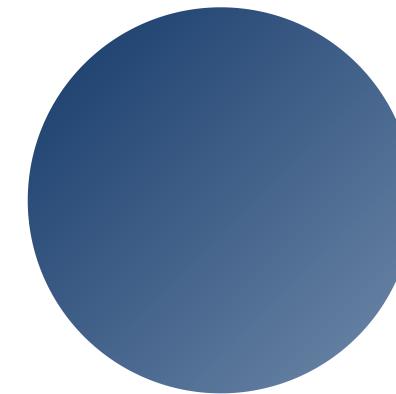
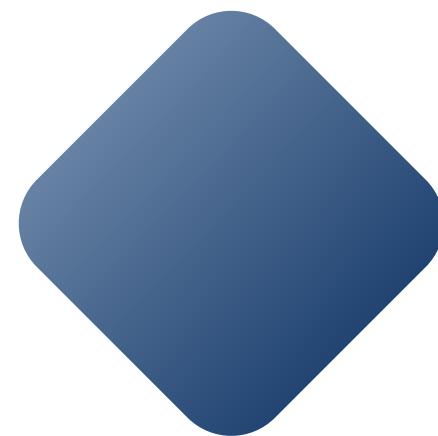
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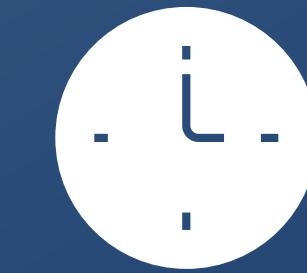
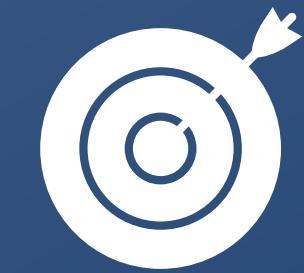
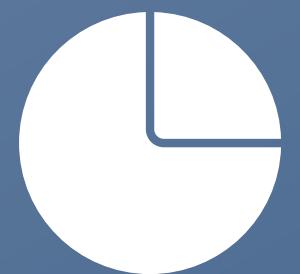
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<b>O</b>	for bubbles	<b>Q</b>	Q for quiet
<b>U</b>	for unveil	<b>#</b>	Any number from 0-9 for a timer

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