# Project 4: Information Collector for Avirant Enterprises

## Module 1: Coding (10 Students)

#### Weeks 1-2: Initial Setup & Basic Functionality

- · Set up the main application and configure security.
- Implement core entities like Form, Question, etc.

#### Weeks 3-4: Controller & Service Layer

- Develop controllers for form creation, data collection, etc.
- Implement service classes to handle business logic.

#### Weeks 5-6: Advanced Features

- Add features like customizable data collection and automated data storage.
- · Implement additional functionalities as required.

## Module 2: Designing (10 Students)

## Weeks 1-2: Initial Design

- · Create wireframes and mockups for main pages (login, home, admin).
- Define the color scheme and overall look and feel.

#### Weeks 3-4: HTML & CSS

- Develop HTML templates for each page using Thymeleaf.
- · Style pages using CSS, ensuring a consistent design.

## Weeks 5-6: User Experience

- Enhance user experience by adding interactivity.
- · Ensure responsiveness for different devices.

#### Module 3: Integration (10 Students)

## Weeks 1-2: Basic Integration

- · Set up database connections.
- Integrate front-end forms with back-end controllers.

#### Weeks 3-4: Data Flow

- Ensure data is correctly saved and retrieved from the database.
- · Connect front-end views with back-end services.

## Weeks 5-6: Full System Integration

- Test end-to-end functionality.
- Make sure all components work seamlessly together.

## Module 4: Testing (10 Students)

#### Weeks 1-2: Test Planning

- · Define test cases and scenarios.
- Set up testing frameworks.

## Weeks 3-4: Unit Testing

· Write and execute unit tests for controllers, services, and repositories.

#### Weeks 5-6: Integration & UAT

- Conduct integration testing to ensure all parts work together.
- · Perform user acceptance testing to validate user requirements.

## **Detailed Weekly Breakdown**

#### Week 1: Introduction & Initial Setup

- · Coding: Set up main application and security.
- Designing: Create wireframes and mockups.
- Integration: Establish basic database connection.
- Testing: Define test cases.

## Week 2: Basic Implementation

- · Coding: Implement core entities.
- Designing: Define color schemes, design main pages.
- Integration: Integrate basic forms.
- Testing: Set up testing frameworks.

## Week 3: Developing Features

- · Coding: Develop controllers.
- Designing: Develop HTML templates.
- Integration: Connect front-end forms to back-end.
- **Testing**: Write unit tests.

## Week 4: Enhancing Features

- · Coding: Implement service classes.
- **Designing**: Style pages using CSS.
- Integration: Ensure data flow.
- Testing: Execute unit tests.

### Week 5: Advanced Integration

- Coding: Add advanced features.
- **Designing**: Enhance user experience.
- Integration: Test end-to-end functionality.
- Testing: Conduct integration testing.

#### Week 6: Final Touches

- Coding: Finalize all coding tasks.
- Designing: Ensure responsiveness.
- Integration: Final integration.
- Testing: Perform UAT.

# **Diagram Overview: ©** Сору Information Collector Application Main Application (InformationCollectorApplication.java) Security Configuration (SecurityConfig.java) **Entities** — Form — Question Controllers — LoginController - HomeController - FormController └─ AdminController Repositories FormRepository — Formkepository QuestionRepository Services — FormService QuestionService Templates - login.html - home.html - form.html · viewForms.html – admin.html css └─ style.css