**Survey Application Development Report**

**1. Introduction**

The **Online Survey Application** is designed to facilitate the creation, distribution, and analysis of surveys. It categorizes users into three roles—**Survey Builder**, **Surveyor**, and **Survey Administrator**—each with distinct permissions and interfaces. The system ensures secure authentication and authorization while providing an intuitive interface for survey creation, participation, and result analysis.

**2. Key Features Implemented**

**2.1 User Roles & Authentication**

- **Survey Builder**: Creates and designs surveys with different question types.
- **Surveyor**: Takes the survey (either identified or anonymously, based on admin settings).
- **Survey Administrator**: Manages user roles, survey visibility, and anonymity settings.

**2.2 Authorization & Interface Customization**

- Each user sees an interface tailored to their role.
- Admin controls whether surveyors must identify themselves or remain anonymous.

**2.3 Survey Creation (Builder Interface)**

- **Question Types Supported**:
  - Multiple Choice (Single or Multiple Answers)
  - True/False
- **Fields for Each Question**:
  - Question Statement
  - Answer Options

**2.4 Survey Participation (Surveyor Interface)**

- Surveyors can:
  - View assigned surveys.

- o Answer questions based on the format.
- o Submit responses (identified or anonymous).

**2.5 Survey Results Analysis (Admin & Builder Interface)**

- **Report Generation**:
  - o Graphical representation (Pie charts, Bar graphs).
  - o Summary statistics (Response count, percentages).
  - o Export options (PDF, Excel).

**3. Output Screens & Functionality**

**3.1 Builder Page**

- **Functionality**:
  - o Add/Edit questions.
  - o Set question type (MCQ/True-False).
  - o Preview survey before publishing.
- **Sample UI**:

## Create Survey Question

Enter Question

○ Multiple Choice
○ True/False

Option 1
Option 2
Option 3 (optional)
Option 4 (optional)
Save Question

**3.2 Admin Page**

- **Functionality**:
  - o  Enable/Disable surveyor identification.
  - o  Assign surveys to specific users.
  - o  Monitor survey completion status.

**Sample UI (When Surveyor Identification is Allowed)**:

## Survey Results

Survey results will be displayed here.
Set Surveyor Identification
☑Allow Surveyor Identification  Save Settings

**Condition:**

**When Surveyor identification is allowed.**

## Survey Results

Surveyor identification is allowed.
Set Surveyor Identification
☑ Allow Surveyor Identification  Save Settings

**3.3 Surveyor Page**

- **Functionality**:

- View available surveys.

- Answer questions (with identification if required).

- Submit responses.

- **Sample UI**:

# Survey Question

Sample Question?
- ○ Option A
- ○ Option B
- ○ Option C
- ○ Option D

- ○ True
- ○ False

Submit