SOLUTION ARCHITECTURE DOCUMENT

Compass Surveys

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Document Control

Version History

Version	Date	Author	Key changes

Distribution

Name	Position title	Date

Document References

#	Title	Link

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1. Introduction

1.1 Document Purpose

The purpose of this document is to describe the backend solution design for the Compass Survey Application.

1.2 Document Scope

The scope of this document is limited backed API only.

1.3 Document Audience

The audience for this document includes:

- Project Leadership Team:
- Development Team:

1.4 Definitions

The following acronyms and definitions will be used in the Compass Surveys and within this document.

Term/Acronym	Definition

2. Solution Overview

The backend API solution will be responsible to handle all HTTP requests from the client app for Compass Surveys.

2.1 Solution Objectives

The solution will provide list of surveys, individual survey details and will also be handling Post requests to persist the data into the database.

2.2 Solution Scope

2.2.1 In Scope

The functional scope for the project includes: Backend API Tests

2.2.2 Out of Scope

The following are deemed out of scope: Frontend Application

2.3 Assumptions

The following assumptions will be validated as part of solution design and implementation:

2.4 Constraints

The following constraints apply to the Compass Survey:

2.5 Dependencies

The solution is dependent on the following items:

3. Technologies to Use.

3.1 .Net Core Web API

[details]

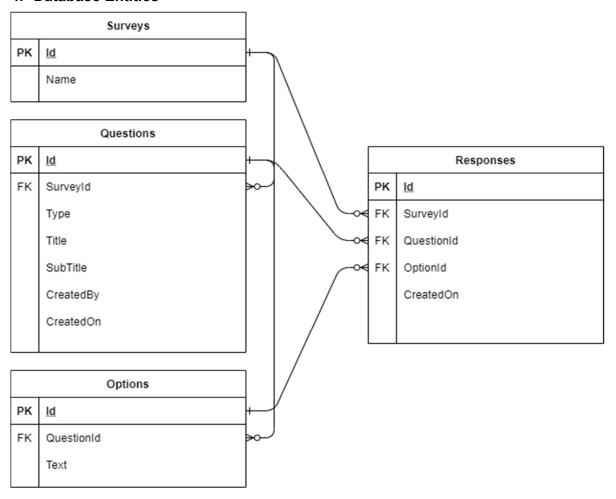
3.2 SQL Server to persist data

[details]

3.3 Source Control

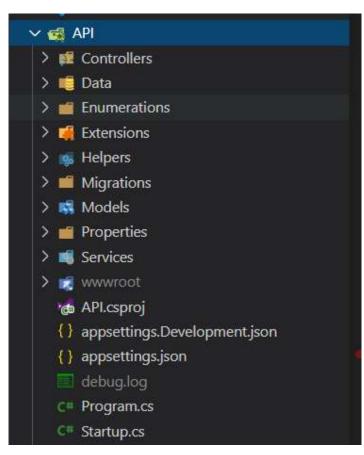
[details]

4. Database Entities



5. Folder Structure

The following folder structure to be followed for the API.



6. End Points

The API should provide the following endpoints.

6.1 Get All Surveys - /api/surveys

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6.2 Get Survey - /api/survey/{id}

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6.3 Add Survey

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6.4 Submit Survey Results

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7. Tests Design

Following tests to be implemented using xUnit framework.

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