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| Solution Architecture Document |
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| Compass Surveys |
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Document Control

**Version History**

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**Document References**

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# Introduction

## Document Purpose

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

## Document Scope

The scope of this document is limited backed API only.

## Document Audience

The audience for this document includes:

* **Project Leadership Team:**
* **Development Team:**

## Definitions

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

| **Term/Acronym** | **Definition** |
| --- | --- |
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# Solution Overview

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

## 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.

## Solution Scope

### In Scope

The functional scope for the project includes:

*Backend API*

*Tests*

### Out of Scope

The following are deemed out of scope:

Frontend Application

## Assumptions

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

## Constraints

The following constraints apply to the Compass Survey:

## Dependencies

The solution is dependent on the following items:

# Technologies to Use.

## .Net Core Web API

[*details*]

## SQL Server to persist data

[*details*]

## Source Control

[*details*]

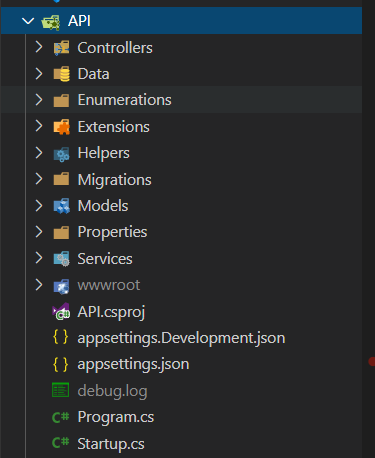
# Database Entities

Graphical user interface, website

Description automatically generated

# Folder Structure

The following folder structure to be followed for the API.



# End Points

The API should provide the following endpoints.

## Get All Surveys - /api/surveys

Details

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

Details

## Add Survey

Details

## Submit Survey Results

Details

# Tests Design

Following tests to be implemented using xUnit framework.

Details