

# Compass Surveys

A Fullstack Code Test

## Background

After discussions with the Product Manager, the Product Owner of your team has identified how we can implement some new functionality in Compass to further our presence in the market. The idea is to create a “Compass Surveys” product for our Compass users.

This would allow staff members to create surveys with multiple questions and options. They could then send these surveys to students to gather feedback on how their schooling is going.

Your Dev Team Lead has assigned you the task of coming up with the solution design and implementation of the project.

## Business Requirements

The business requirements that the product owner has decided on are the following:

- A user needs to be able to choose a survey to complete
- A survey should display one or more questions
- Each question can display one or more options to choose from
- The user does not have to fill out the survey, they can navigate back to the previous page

## Technical Requirements

The technical requirements that your team has decided are the following:

- Code should be formatted and structured well
- Components should be reusable
- Typesafe code is preferred
- Not locked to any specific technology/language
- A README.md needs to be included so that other developers know how to run your project

## Your task

- Create a front-end **working solution** based on the background and additional resources listed above and below.
- Create **documents** of the solution architecture for the back-end. Include things such as:
  - Technologies to use
  - API Design
  - SQL Design
  - Tests Design
  - Directory structure
  - Diagrams

Zip up your solution and upload to your favourite file hosting site and send a link to **dsenturk@staff.compass.edu.au**. We will use this as a basis for our discussions in our technical interview.

We look forward to seeing what you come up with! :)

## Additional Resources

### Example mock server JSON structure

```
{
  "surveys": [
    {
      "id": "1",
      "name": "Survey 1",
      "questions": [
        {
          "id": "53",
          "createdBy": "Elisabeth Winters",
          "createdDateTime": "Fri, 22 May 2020 01:11:00 GMT",
          "title": "How many astronauts landed on the moon?",
          "subTitle": "",
          "questionType": 3,
          "options": [
            {
              "id": "1",
              "text": "1"
            },
            {
              "id": "2",
              "text": "3"
            },
            {
              "id": "3",
              "text": "18"
            }
          ]
        }
      ]
    }
  ]
}
```

```
]
},
{
  "id": "72",
  "createdBy": "Maryam O'Ryan",
  "createdDateTime": "Tue, 26 May 2020 05:57:52 GMT",
  "title": "How many devs does it take to change a lightbulb?",
  "subTitle": "This is not a trick question.",
  "questionType": 3,
  "options": [
    {
      "id": "1",
      "text": "One"
    },
    {
      "id": "2",
      "text": "Two"
    },
    {
      "id": "3",
      "text": "Three thousand three hundred eighty-seven"
    }
  ]
}
]
},
{
  "id": "2",
  "name": "Survey 2",
  "questions": [
    {
      "id": "34",
      "createdBy": "Andre Grid",
      "createdDateTime": "Thur, 28 May 2020 09:30:00 GMT",
      "title": "What is the temp today?",
      "subTitle": "We need to send this to the Bureau of Meteorology.",
      "questionType": 3,
      "options": [
        {
          "id": "1",
          "text": "10°"
        },
        {
          "id": "2",
          "text": "20°"
        },
        {
          "id": "3",
          "text": "30°"
        }
      ]
    }
  ]
}
]
}
```

## UI Design

### Surveys Page

#### Compass Surveys

Survey 1

Survey 2

Survey 3

### Survey Questions Page

#### Survey 1

##### Question 1

Description of the question etc.

- ☐ Option 1
- ☐ Option 2
- ☐ Option 3

##### Question 2

Description of the question etc.

- ☐ Option 1
- ☐ Option 2
- ☐ Option 3

Back