

# Senior Ruby & React Full-Stack Engineer Challenge



Expected time to take: 3 to 4 hours

## Overview

The requirement for this challenge is to build an application of **presenting tasks in different styles on the screen**.

Tasks can be shown in 2 ways. Either as **vertical list** or as **horizontal grid**. Use your **own** design for it.

Provide an UI component to **switch** between these two presentation styles, the list and the grid.

Provide a way **to select one of two projects**. The tasks of the selected project will be shown on the screen in the selected presentation style.

When switching the project the **same presentation style** will be used, as this preference is saved locally in the client.

**No input** for a new task is required or needed. The project and task data **is seeded** in the database at application start.

Frontend and Backend communicate via a **GraphQL API**.

To bring dynamic to this application, think about the concept of a **recurring task**. A new task is created **every 2 minutes for each project**.

The new task has the **hardcoded name** of "New Task + `current timestamp`".

The recurring time of 2 minutes is also hardcoded.

The **UI is automatically updated** when a new task is created.

# Data Models



A basic data model is sufficient for this challenge.

- **Project**
  - id
  - name
- **Task**
  - id
  - name
  - Belongs just to one project

## Technical requirements

- Ruby on Rails
- React
- MySQL
- GraphQL
- Make the project production ready.

**Document** your approach of solving this challenge.



*Happy Coding!*