## Introduction

The projects are designed to have progressive development, starting with a simple backend to let the student be focused on user interface design (UI), these interfaces can be as complex as the student wants to develop using skills learned in the bootcamp.

Once basic requirements have been completed and user interface has been developed for applications, the student has the option to create new endpoints to add new features to the application.

## Development

#### Stage 1 (base development)

**Backend:**

1. Read endpoint: To get data from database it will be returned on JSON format to the client.

**Frontend**:

1. UI is open design development. Design and implementation depends on the students.
2. Create API calls needed to get all data from the server.

#### Stage 2 (New features)

**Backend**:

Possible endpoints to develop:

1. Endpoint to insert new entries to the DB.
2. Endpoint to update items on the DB.
3. Endpoint to delete an entry on the DB.

**Frontend:**

1. Get every together, use the new endpoints developed and add the new features to the IU.

#### Stage 3 (Optional)

1. Add a search function on your application.
2. Add sort functionality to the lists on your application.

## Project

### Blog

Create a blog single page web application, on version one build post list and on version two try to add a new feature to add and remove comments from a post.

**Database:**

Table: posts

Fields: id, title,text, created\_at

Table: comments

Fields: id, post\_id, created\_at, deleted\_at

**Stage 1:**

*Backend*

Endpoint: GET /posts

Description: Endpoint to get *n* posts from your database.

Suggested response

*HTTP 200*

{

id: int,

title: string,

text: string,

created\_at: string

}

*FrontEnd*

UI: Develop your own blog page, be creative using all tools that you learned at the bootcamp.

Data source: Use endpoints developed by you to get data needed.

**Stage 2:**

Feature: Comment

Description: Enable your blog to receive comments on its posts, comments can be deleted.

*Backend*

Endpoint: POST /comment/:post\_id

Description: Add a comment to a post.

Suggested response: *HTTP 201*

Endpoint: DELETE /comment/:comment\_id

Description: Remove a comment from a post, consider a soft delete option.

Suggested response: *HTTP 204*

*FrontEnd*

UI: Add the new functionality to you UI.