

Web Engineering API Document

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1 Introduction

This document describes the design of the web application for the course web engineering, which is to expose an API which communicates data from the "airlines" data set.

2 Back end

For the back end of our web application we decided to use python, since we had some experience coding in this language. Python has a great micro framework for the creation of api's called flask. Flask is very light and doesn't require a lot of setup to get started. With flask it's very straight forward to create all the CRUD requests. To help visualize our back end we implemented swagger ui, which uses a YAML file to help structure the requests.

3 Front end

For the front end of our web application we decided on Vue.js. Vue.js is a lightweight version of react making it perfect for our small scale web application. We were able to create different components for all the request to the back end. And vue allows us to make all these components dynamic and route properly giving a full single page experience.