

Web Engineering API Document

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1 Introduction

This document describes the design(technology stack) 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 'api-first' framework for the creation of api's called connexion. Connexion builds on top of the well known microframework Flask. Connexion automatically handles HTTP requests which are defined according to the OpenAPI specification using a yaml file. To view the api documentation visit the following url after starting the application: <http://localhost:5000/v1/ui/>

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.