

These slides are part of the downloadable resources of *The Complete Guide to Django REST Framework and Vue JS* course.

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# Final Project

## Introduction

# Final Project - Introduction

Welcome to the end of course project with DRF and Vue JS!

**Congratulations on making it this far into the course!**

It's finally time to build a full fledged Single Page Application using Vue JS and Django!

# Final Project - Introduction

We are going to build a Complete Web Application for a Quora-like website, that we are going to call **QuestionTime**.

Once registered, users will be able to post questions and receive answers on any topic, they will be able to vote for the best answers added to each question using a **Like** button, and they will also be able to edit or delete their questions or answers at any time.

# Final Project - Introduction

This project is designed to allow you to experiment and significantly deepen all the knowledge acquired so far in a Real World Scenario, learning to properly connect a REST API backend written with Django and the REST Framework to a Single Page frontend written with Vue JS.

We will create the application backend first, passing then to the creation of the frontend interface as soon as the backend part is completed.

# Final Project - Introduction

By developing this project, you will learn:

- How to use Django, DRF and Vue JS to build Real World Projects
- How to use Vue CLI and Vue Router
- How to build Single Page Applications with Vue JS and Vue CLI
- How to keep Webpack's Hot-Module-Replacement (HMR) working with Vue CLI and Django during development
- How to use session authentication in a DRF powered SPA

# Vue CLI

# Vue CLI

In this lesson we are finally going to talk about the powerful **Vue CLI**.

We will understand why we need Vue CLI to create our Project, by making an overview of it's features and by analyzing the components that it creates for us, ready to be used.



# Vue CLI

**Vue CLI = Vue Command Line Interface**

Vue CLI is a full system for rapid Vue.js development and project scaffolding.

# Vue CLI

Creating a new project using Vue CLI instead of using the `<script>` tag is in a way similar to creating a Django Project with the `startproject` command:

*It creates most of the initial boilerplate code and configuration files that we need automatically, allowing us also to install and integrate extra packages in our projects easily.*

# Vue CLI

## Using Vue CLI:

- We can select the libraries that we want to use immediately, such as Vue Router
- We can develop the HTML, CSS and JavaScript code for the project according to our needs and preferences, using single file components (.vue), SCSS, TypeScript...

# Vue CLI

- Ready-to-use Webpack configuration that allows us to group and minify all the JS, CSS and dependencies code in bundles to use in production.
- Development server with Hot Module Replacement (HMR), showing us real time browser updates about all the changes we are applying to our application while developing
- Recent versions of Vue CLI also include a Web Interface called Vue UI

# Vue CLI

To install Vue CLI in our system we need NPM, Node Package Manager.

NPM is the default package manager for Node.js, the JavaScript runtime environment built on top of Chrome's V8 JavaScript engine, that allows code execution outside of the browser, such as for example as a server side language.

Let's jump to Chrome and let's get started!