

Software Engineering Product Architecture Version 1

Juicy Story Project Group

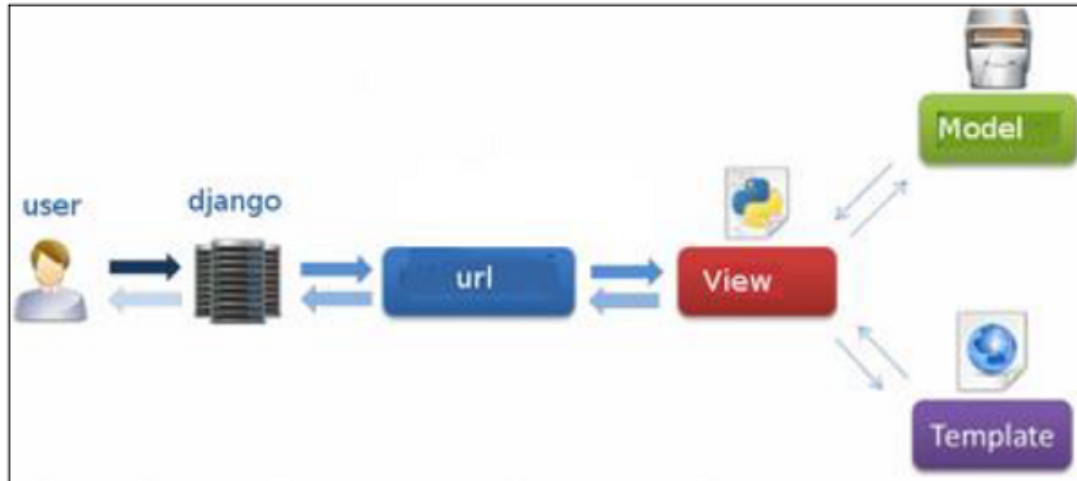
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Overview

We are using Django, a web framework based on Python which allows for seamless front and the back end interaction. The framework supports a modernized version of the MVC pattern called **MVT**. MVT stands for (M)odel, (V)iewer, (T)emplate and it's slightly different from MVC. Django alleviates the need for a Controller which is being taken care of internally. The template acts as the front-end while the Model and View both act as the back-end.



Back-End

Re-usability is crucial for any development project and Django provides modules that can be created called 'apps'. The apps can then be reused for multiple projects with slight modifications. So far we have created numerous apps that handle certain aspects of the web-application :

- **Users** : The application responsible for User management. The actions of logging in and signing up are integrated into the user module. The core design choices that we made here were solely based on the attributes that User would have in a database table that would act as the Model of the application. We decided that the model should only contain information about the name of the user and the password required to access the account. Later iterations would allow user creation under predefined prerequisites, as well as more data stored about the users in accordance with the possible customer demands.
- **iUsers** : The application responsible for Instagram account management. The action of adding an Instagram account and showing the list of all Instagram accounts managed by the user are handled by this application. The model is comprised of the Instagram handle and a foreign key to the user that it is linked to.
- **imageBoard** : The application responsible for retrieving and displaying Instagram data. The module can directly retrieve content from a predefined instagram account and display it based on attributes such as hashtags and locations. Late functionality would allow for Instagram wide search utilizing predefined attributes.

Front-End

For the front end development we decided on using the following technology stack:

1. HTML & CSS
2. Bootstrap
3. Vue.js (framework)
4. Javascript (jQuery)

Architectural and design decisions

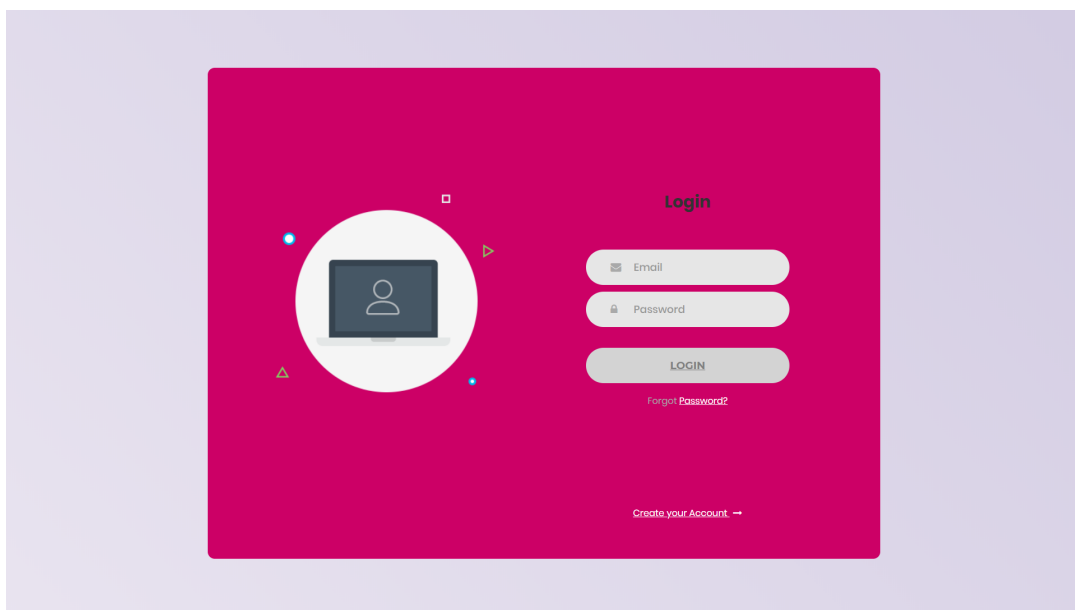
For the second sprint, we wrote a demo which includes the Login page, a Sign up page, a Password recovery page for resetting the password and a first version of the home (dashboard) page. The design of the pages follows the guidelines given by the client, however it could further be changed/improved according to the client's requests.

Login

The Login page consists of a generic login form which asks for the email address of the account and respectively, the password. The login button redirects the user to the home page of the application where they can find the entire content of their account.

We added 2 basic extra options: creating a new account and password recovery. The links redirect the user accordingly.

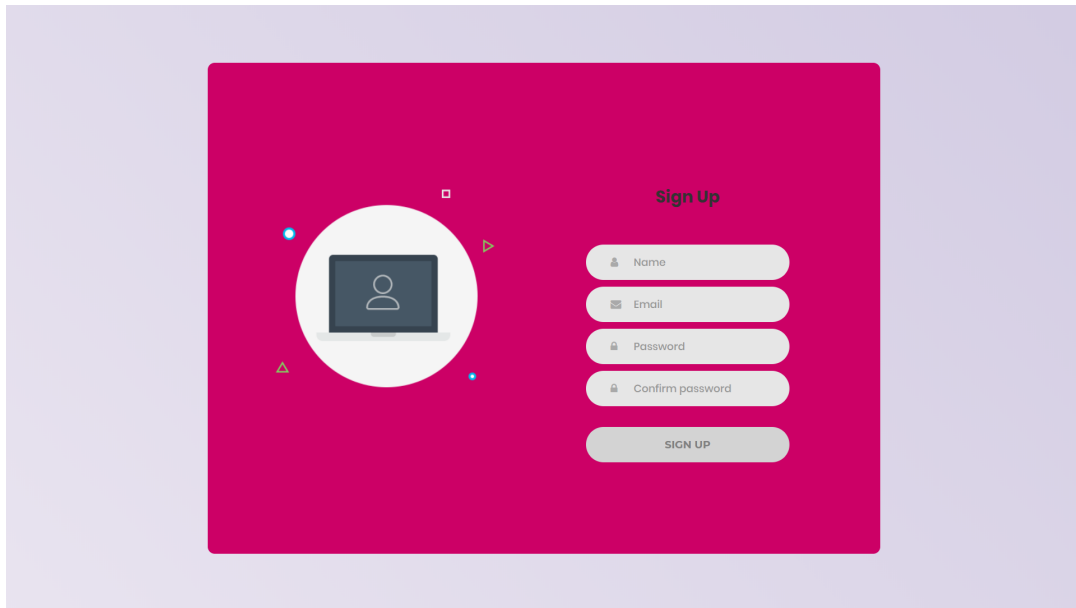
As far as the design goes, we created a minimalistic interface focused on the main element: the login. Right to the login fields, the logo of the company will be added to personalize the page.



Sign up

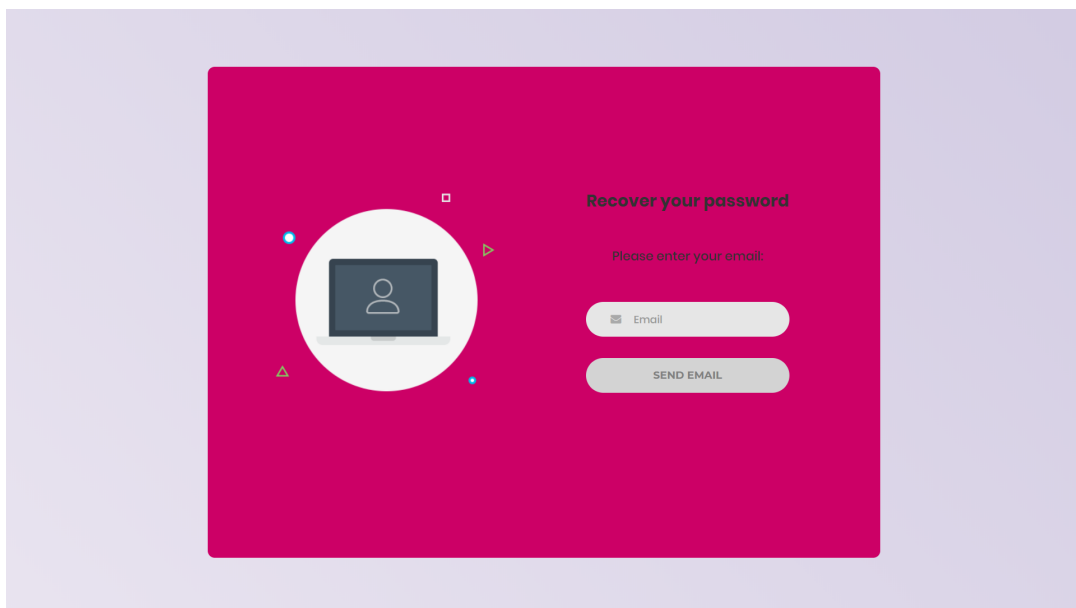
The main focus of the Sign up page is on the form with the following fields: name, email address, password, password confirmation. All the above mentioned fields are required in order to create the account together with a valid email address (xyz@wt). Another requirement is having the content of the two password fields to match.

The design is similar to the Login page in order to maintain consistency.



Password recovery

The Password recovery page only consists of one field requiring an email address in order to request a password change.



Home

The home page contains a title bar. With this title bar, you can navigate through functions like notifications, account settings and you can log out. Below the title bar, you have a number of tabs. These tabs let you navigate to the dashboard, which shows the main statistics for the clients Instagram account. The Incoming tab should display all Stories in which the client is either tagged, 'hashtagged' or mentioned. After that we have the Stories tab, which is supposed to display all Stories ever posted by the client. There is also the Report tab. This tab displays more detailed statistics about the stories posted by the client. And finally, we have the Story Creator tab, which the client can use to create and post Stories on their Instagram account.

As of yet, none of these tabs have been implemented yet. Currently, the title bar just says 'Juicy Story'. This has to be replaced with the Juicy Story Logo.

