

REST Application Maker

Team Name: HAcK

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Problem Description:

Based on current scenario, developers have to write applications from scratch which consumes a web service and provides data. The process of fetching information from web services is more or less the same, only the query terms and values change based on domain and scope. This process requires lots of coding plus it does not allow the usage of the same application for multiple users, example: if we have 2 users who are interested in Weather data but one is interested in knowing temperature and other is interested in knowing humidity we need to develop 2 applications, instead we should have a mechanism where we only develop a single application and allows users to customize it based on their data needs.

Proposed Solution:

This application will allow developers to develop web-applications consuming a web-service. Developers will define a set of query parameters that users will have to input during usage. Applications can also be published on Appstore where users can view and download the application. Once downloaded users can personalize the application by selecting the parameters that they are interested in viewing. The user will have to provide the input while using the application and on submission they would be able to view the result depending upon their preference.

Our aim is to help developers focus on “what requirements to include in the app” rather than “how to include requirements in the app”. This will provide a platform for novice users to build and customize apps using drag/drop functionality and a few clicks without worrying about the backend coding

Data Source:

- Web Services (Weather, Movies, Music, Food) like:
 - Weather: <http://www.wunderground.com/weather/api/>
 - Movies: <http://developer.rottentomatoes.com/>
 - Food: <https://developer.yummly.com/>
- Database tables

List of Pages:

- Login Page: This is the main entry screen for the user/developer to the application
- User/Developer homepage: When the user/developer successfully logged-in, this page is displayed. It will have sections: create new app, view created apps, view downloaded apps
- Create new application: When the developer clicks on create new app this page is displayed. Here the developer needs to specify the app details like name and description along with the API service to be used
- Customize application: When the developer submits the new app details this page is displayed. Here the developer needs to add the query parameters for the API service and specify the type of input e.g.: textbox, dropdown
- Application homepage: Once the developer has finished customizing the app this page is displayed. This represents the home screen for new app which the user will see view after downloading the app
- Edit application preference: Here the user will be able to view all the available parameters in the response after submitting the input. They can save parameters they are interested in viewing for future use. Other parameters can also be seen by clicking more options available
- View application response: Once the user provides the query parameters and submits this page is displayed. On success it will show parameters depending on the user preference an error message if the query did not execute
- AppStore: When the user clicks on download app this page is displayed. It will contain a list of applications published by developers by category which the user can view and download