

Angular Training Summary - Report

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Project Implementation: Recipe-ShoppingList Book and Star Wars Trivia App.

Git Hub Link: <https://github.com/vineetsampat/Projects1/tree/master/FMAngular>

Aim: To understand, learn, and Implement Angular Framework and implement using real-time Application.

Brief Project Description: 'Star War Trivia App' – consists of two important components Movies and Characters, both of them display a list of movies and characters associated with them on button click. It consists of a troll box form to rant and troll.

The 'Recipe Book App' consist of two important components Recipes and Shopping List. In the Recipes section, a user can view a recipe , add a recipe, edit a recipe , delete a recipe , and get details regarding individual recipes. Also, Ingredients can be added to the shopping list from Recipe. We have Manage Recipe section to fetch and store data using a firebase Database console. In the shopping list component, we can add Ingredients, view Ingredients, update Ingredients, Delete Ingredients, and clear them.

The below tabular section displays the various Angular concepts learned during training and implementation in the project.

Features	Description/Benefits	Implementation
Components	They are building blocks of any Angular application that breaks down an application into smaller chunks to perform the tasks.	We have implemented components like Movies, movies-list, characters, characters-list, recipes-list, item, detail, and shopping list-edit
Services	Services are the core part of an angular application that has the main logic of our application. We create an instance of services that we can share commonly across the app and that is achieved by using Dependency Injection .	We have implemented movies, characters, recipes, and shopping list services to add, update, view, delete single recipes, and ingredients.
Directives	Directives are functions that execute when compiler finds out in DOM.	We have implemented directives like *ngFor, *ngIf, ngSwitchCase, *ngStyle, etc in our Recipe App.
Data Binding	It acts as a communication channel between component and template(HTML) by synchronizing data between them.	We have implemented property binding, event binding, single interpolation, and 2-way data binding in our Recipe App.
Observables	They are used for handling asynchronous data in an application that can handle multiple processing simultaneously.	We have implemented in recipes app and subscribe to them while using them.
Forms	We have a Template Driven Form that allows Angular to manage your forms and another is Reactive Forms approach that allows us to programmatically design and manipulate DOM.	We have implemented TDR for shopping-list and Reactive form for recipes. Sub-feature like FormsArray was also used.
Pipes	They are used to transform the output displayed in your view(template).	We have used pipes for username uppercase and fullDate for star wars App.

Routing	It allows us to create Single Page Applications(SPA's). It helps to create different URL's/path to display different pages in your application	We have used routing for both our app's to route to different pages on button click, also child routing is implemented.
Router Guards	It is used to prevent unauthorized access in certain parts of the navigation	We have used it while viewing or editing the recipes via 'id' in our application.
Http Requests	It is used for storing and fetching data from a backend database/server using Http requests.	In our recipe App, we have 'save data' and 'fetch data' in the header on clicking them it stores and fetches recipe data from a backend database, 'Firebase'.
Form Validation	It is very important that data entered by the user is valid and there is no discrepancy in it. Validators provide form validation to check correct data is key-in by the users.	We have used in-built validators and custom validators for both Recipe App and star wars App like regex-pattern matching, nginvalid, ngtouched, ngpristine, etc.
Angular Material(Angular Mat) Library	It helps in constructing attractive, consistent, and functional web pages applications.	We have used in Starwars app for Mat-button, Toolbar, list, card, formfield, and Input Module.

Screenshots:

Star Wars Trivia

[List of Movies](#)
[List of Characters](#)

Trollbox

Post a Rant

Trollbox

Rant

Troll Name

Post a Rant

Save

Cancel

Name

A Sample Recipe

Image URL

https://picsandapplied.com/preview/wp-content/uploads/2013/05/MyRecipes.jpg

Description

This is sample display

Meat

1

French Fries

20

Add Ingredient

Star War Characters

Luke Skywalker

Height: 172

Weight: 77

Hair Color: blond

Skin Color: fair

Eye Color: blue

Birth Date: 19BBY

Gender: male

C-3PO

Height: 167

Weight: 75

Hair Color: n/a

Skin Color: gold

Eye Color: yellow

Birth Date: 112BBY

Gender: n/a

R2-D2

Height: 96

Weight: 32

Hair Color: n/a

Skin Color: white, blue

Eye Color: red

Birth Date: 33BBY

Gender: n/a

Darth Vader

Height: 202

Weight: 136

Hair Color: none

Skin Color: white

Eye Color: yellow

Birth Date: 41 BBY

Gender: male

Star War Movies

Episode 4 - A New Hope

Release Date: Wednesday, May 25, 1977

Director: GEORGE LUCAS

Opening Credit

It is a period of civil war. Rebel forces, who have secretly allied with the Galactic Empire, are plotting to destroy the Empire's Death Star, an armored planet that will destroy an entire planet.

During the battle, Rebel pilot Obi-Wan Kenobi is shot down and crash-lands on the desert planet of Tatooine. He is rescued by a young boy named Luke Skywalker, who is the nephew of the Rebel leader, Han Solo. Luke decides to join the Rebel forces and help them destroy the Death Star.

Directed by the Empire's Lord Vader, a secret her search party that will the planet and return. Return to the galaxy...

Episode 5 - The Empire Strikes Back

Release Date: Saturday, May 17, 1980

Director: IRVIN KERSHNER

Opening Credit

It is a dark time for the Rebellion. Although the Death Star has been destroyed, the Empire has recovered from its defeat. The Rebel forces are now on the run, and the Empire is searching for them across the galaxy.

Leading the Imperial forces, a group of Rebels, return to the galaxy...

Recipe Book

Recipes

Shopping List

Name

Quantity

Apple

5

Update

Delete

Clear

Apple (5)

Orange (3)

Bread (2)