

React – Final Project 1

You need to create a Web application for Movies & Subscription management.

The Front End layer implemented with React and the Back End implemented with Google Firebase

System Components

The Back End Layer (FireBase based)

Only authorized users can log in to the web site. The first user is the Admin and only he can manage other users (create, change & remove)

The authorized users can be registered and managed in 2 options:

1. UsersLogin collection – A collection with the following data:
 - a. _Id (ObjectId)
 - b. UserName (Required for login)
 - c. Password (Required for login)

2. Internal Firebase Authentication

You need to read and learn the way Firebase manage authenticated users here:

<https://firebase.google.com/docs/auth>

The system also has the following collections:

Users collection - stores the following data for every user:

- Id (The _id that created in the Data Base)
- First Name
- Last Name
- Created date
- SessionTimeout (number) – the duration (in minutes) a user can work on the system once he logged in.

Important : The system starts with only one (pre-defined) record of the System Admin data

Permissions collection - stores all the user permissions regarding the movies management system:

- Id (The _id that created in the Data Base)
- Permissions - an array of permissions (strings)
- "View Subscriptions"
- "Create Subscriptions"
- "Delete Subscriptions"
- "View Movies"
- "Create Movies"
- "Delete Movies"

A user can have many permissions !

Members – A collection that stores the subscription members data. The initial data pulled from the Members WS at <https://jsonplaceholder.typicode.com/users> :

- _id (ObjectId)
- Name (String)
- Email (String)
- City (String)

Movies – A collection that stores movies data. The initial data pulled from the

Movies WS at <https://api.tvmaze.com/shows>

- _id (ObjectId)
- Name
- Genres (Array of Strings)
- Image (A string – The url of the image picture)
- Premiered (Date)

Subscriptions – A collection stores the data of all the subscriptions:

- _id (ObjectId)
- MemberId (ObjectId)
- Movies (an Array of { movieId : Object Id, date : Date }) - This field store all the movies the member (subscription) watched and their dates

The Front End Layer (React + Redux)

Pages & Procedures

1 – Login Page

The home page of the system. A page with username & password text box and a “Login” button. A successful log in redirect to “Main” Page. A failed attempt will present a proper message in the same page (Login page).

Once a user logged in – his name will be presented in all the site pages

First time users (which don’t have password yet) will click on “create account” link which will redirect them to a “CreateAccount” page

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Log in Page

User name :
Password :

New User ? : [Create Account](#)

2 – CreateAccount Page

This page will allow to a new user (that has been created by the Sys admin) to setup his login details. The page will present 2 text boxes:

- User Name – **the given UserName from the SYS Admin**
- Password – a new password

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Create an Account

User name :

Password :

A click on "Create" button will check: If the UserName exists in the data base, it will store the new password and redirect back to LogIn page.

If the UserName is NOT exist in the data base, the page will present a proper message and the creation will fail!

3 – Main Page

The Main page contain a menu of the system movies & subscriptions options

For the Sys Admin ONLY, there will be another Menu option called "Manage Users"

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- Movies – Will Redirect to “Movies” Page
- Subscriptions – Will redirect to “Subscriptions” Page
- Users Management – **Visible only to the sys Admin** – will redirect to “Manage Users” page
- Logout – Will log out the current user and redirect to “Login” Page

4 - ManageUsers Page

This page has a menu with 2 options:

- All Users (default) – shows the “Users” page
- Add User- redirect to “Add User” page

5. “Users” Page

This page presents all the users data :

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Users

[All Users](#) [Add User](#)

Name : Avi Cohen
User Name : avi@gmail.com
Session time out (Minutes) : 44
Created data : 11/12/1998
Permissions : View Subscriptions, Edit Movies

[Edit](#) [Delete](#)

Name : Dana Ron
User Name : dana@gmail.com
Session time out (Minutes) : 60
Created data : 11/12/1990
Permissions : View Subscriptions, Edit Movies

[Edit](#) [Delete](#)

- Click on "Edit" button will redirect to "Edit User" page
- Click on "Delete" button will delete the user's and all his data from the system

6 - EditUser Page

This page present a form with all the selected user's data:

- First Name
- Last Name
- Created Date (Read only)
- UserName
- Seesion Time Out
- Permissons : a list of checkboxes will all the permissions types:
 - "View Subscriptions"
 - "Create Subscriptions"
 - "Delete Subscriptions"
 - "Update Subscription"
 - "View Movies"
 - "Create Movies"
 - "Delete Movies"
 - "Update Movie"

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Users

Edit User : Avi Cohen

First Name :	<input type="text" value="Avi"/>
Last Name :	<input type="text" value="Cohen"/>
User Name :	<input type="text" value="avi@gmail.com"/>
Session time out (Minutes) :	<input type="text" value="60"/>
Created data :	<input type="text" value="11/12/1998"/>
Permissions :	
<input checked="" type="checkbox"/> View Subscriptions	
<input type="checkbox"/> Create Subscriptions	
<input type="checkbox"/> Delete Subscriptions	
<input type="checkbox"/> Update Subscriptions	
<input checked="" type="checkbox"/> View Movies	
<input checked="" type="checkbox"/> Create Movies	
<input type="checkbox"/> Delete Movies	
<input type="checkbox"/> Update Movies	
<input type="button" value="Update"/>	<input type="button" value="Cancel"/>

A click on "Create Subscriptions" , "Update Subscriptions" and "Delete Subscriptions" options will automatically check the "View Subscriptions" checkbox

A click on "Create Movies" , "Update Movies" and "Delete Movies" options will automatically check the "View Movies" checkbox

- A click on "Update" button will be save the updated data and redirect back to "All Users" page
- A click on "Cancel" button will redirect back to "All Users" page

7 - AddUser Page

This page present a form with all the fields for a new user's data:

- First Name
- Last Name
- UserName
- Seesion Time Out
- Permissons : a list of checkboxes will all the permissions types:
 - "View Subscriptions"
 - "Create Subscriptions"
 - "Delete Subscriptions"
 - "Update Subscription"
 - "View Movies"
 - "Create Movies"
 - "Delete Movies"
 - "Update Movie"

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Users

[All Users](#) [Add User](#)

Add New User

First Name :
Last Name :
User Name :
Session time out (Minutes) :

Permissions :

- ☐ View Subscriptions
- ☐ Create Subscriptions
- ☐ Delete Subscriptions
- ☐ Update Subscriptions
- ☐ View Movies
- ☐ Create Movies
- ☐ Delete Movies
- ☐ Update Movies

[Save](#) [Cancel](#)

A click on “Create Subscriptions” , “Update Subscriptions” and “Delete Subscriptions” options will automatically check the “View Subscriptions” checkbox

A click on “Create Movies” , “Update Movies” and “Delete Movies” options will automatically check the “View Movies” checkbox

A “save” button will save all the data in the proper data sources : First in the data base for getting the new _id for the user, and then in the json files (with the given id)

A “cancel” button click will redirect back to the “ManageUsers” page

Movies & Subscriptions Management

The System allows to manage members (subscriptions) and their movies

8 – Movies Page

This page has a menu with 2 options:

- “All Movies” (default) page
- “Add Movie” page

9 – “All Movies” Page

Present all movies in a list. Each movie has it’s name, year, image, “edit” & “delete” buttons, and a list of all the subscriptions that watched that movies (name + year)

Each subscription name is a link.

This page is visible only to users with the right permission

This “Edit” & “Delete” buttons are visible only users with the right permission

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Movies Subscriptions Users Management Log Out

Movies

All Movies Add Movie Find Movie : Find

Under the dome , 2016
genres: "Drama", "Science-Fiction", "Thriller"



Subscriptions watched

- [Avi Cohen](#), 12/11/1998
- [Dana Levy](#), 01/10/2001

Edit Delete

Arrow , 2002
genres: "Drama", "Science-Fiction"



Subscriptions watched

- [Gil Milo](#), 12/11/1995

Edit Delete

- A click on "Edit" button will redirect to "Edit Movie" page

- A click on "Delete" button will delete all the movie's data from the server, including from the subscription's watched movies list
- A click on the Subscriber link will redirect to the "Member" page
- Enter movie name phrase and click on the "Find" button" will present the same page with the match movies

10 – "Add Movie" Page

This page allows to create a new movie

This page is visible only to users with the right permission

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Movies

All Movies **Add Movie**

Name : The GodFather

Genres Drama,Thriller

image url http://www.someurl.jp

Premired 20 / 05 / 2020

save cancel

- A click on "Save" button will save the new data in the DB
- A click on "Cancel" button will redirect to the "All Movies" page

11 – “Edit Movie” Page

This page allows us to update a movie data

This page is visible only to users with the right permission

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Movies

Subscriptions

Users Management

Log Out

Movies

Edit Movie : Under the Dome

Name :

Genres

image url

Premired

- A click on "Update" button will save the updated data in the DB
- A click on "Cancel" button will redirect to the "All Movies" page

12 – “Subscriptions” Page

This page manages all the members and their movies subscriptions

This page is visible only to users with the right permission

This page has a menu with 2 options:

- All Members (Default) – present “All Memembers” page
- Add Member – present “Add Member” page

13 – “All Members” Page

This page presents all the members and their movies they watched (subscribed to)

- Click on the “edit” button will redirect to “Edit Member” page
- Click on “Delete” button will delete all the user’s data (including the relevant data from the movies data sources)

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Subscriptions

[All Members](#)[Add Member](#)

Avi Cohen

Email : avi@gmail.com

City : Tel Aviv

[Edit](#)[Delete](#)

Movies Watched

[Subscribe to new movie](#)

- [Under the dom](#) , 12/5/ 2019
- [Arrow](#), 17/5/ 2017

Dana Levy

Email : Dana@gmail.com

City : Haifa

[Edit](#)[Delete](#)

Movies Watched

[Subscribe to new movie](#)

The “Watched Movies” section includes a list of links to the movies the member watched, and the date he watched them. It also has a button for subscribing to a new movie.

- A click on a movie link will redirect to “All Movies” page that presents ONLY the selected movie.
- A click on “Subscribe on new movie” button will open a new section with a drop down with all the movies he has not watched yet, and a date for watching it.

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Subscriptions

[All Members](#) [Add Member](#)

Avi Cohen

Email : avi@gmail.com

City : Tel Aviv

[Edit](#) [Delete](#)

Movies Watched

[Subscribe to new movie](#)

Add a new movie

Big [28 / 05 / 2020](#)

[Subscribe](#)

- [Under the dom](#) , 12/5/ 2019
- [Arrow](#), 17/5/ 2017

- Click in "Subscribe" will add the subscription of that movies (at that date) to the member
- Another click on "Subscribe to new movie" button will close the "add new movie" section

14 – "Edit Member" Page

This page allows us to edit the member's data

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Members

Edit Member : Avi Cohen

Name :

Email

City

- Click on "Update" button will update the member's data
- Click on "Delete" button will redirect back to the "All Members" Page

15 – "Add Member" Page

This page allows us to add a new member

This page is visible only to users with the right permission

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Subscriptions

[All Members](#) [Add Member](#)

Add new Member

Name :

Email

City

- Click on "Save" button will create the new member
- Click on "Delete" button will redirect back to the "All Members" Page

End