1)Angular Advanced Course –Helicopter View

We are going to build small open source components of angular.these components can be potentially reused in just about any angular project. we build simplest to most complex components. we will introduce testing from first components or directive that we build. In the end we will introduce animations in our final component. All components will be compatible with aot. They will be avalaible on npm and I hope that this will encourage you to publish your own modules. We will be using the yarn package manager , all the way. We build these components-

1)Font awesome Input Box. It will be mobile friendly. we will be talking about component design, how to style components and will introduce testing straight away. We see you to make components themable, which means components will have default theme but it can be overridden, they can adapt to theme of any application.

2)an exercise, we will be building google material deign input box, meaing it will be able to display an icon which is coming from the google material design library.

So this will be our starting point an initial component and exercise. We would have tested library, deployed it on npm at this stage. So we will increase the level of difficulty.

3) then we will build a top container that has default theme but it’s fully customizable. This means we can override anything in that top container, for ex look and feel of buttons. The container will be able to accept new tabs added dynamically at runtime. So at this time we have 3 compon nets build and deployed to npm.

4) the we are going to build input mask directive. This will be our first directive. This input mask directive will help user to introduce anything that has a predefined format such as phone or ssn. This will be designed in a way that it’s compatible with the components that we have been building so far.

5)Next we will build a dynamic modal component. Like pop up that you see for logging in user etc. this is going to be completely dynamic component, What I mean by that is modal will not be hidden. Lets say by display:none on page, it will be added to the page last seconds. So its completely dynamic components. We have’nt done this before in this course.

6) now we have 5-6 modules created in npm. Then we will create a new library. We are going to combine all directives and components that we have built so far into dynamic mobile payment component, that we will be adding animations to. So this is part of course where will cover animations.

So this content of course.

Exact features that we will be covering are -

We will cover advance core angular features such as template, templates outlet, ng-content, ng container, style resolation and customization. We are goin to covet aot. We are going to cover global events, debugging with angular cli, View Childern.Content children and all the decorators that are related to notions around light DOM vs shadow DOM. We will cover all the features of directives like hostbinding and host listener, dynamic components that will be the modal. We will be covering keyboard events, testing and animations.designs

3)Installig Node,NPM,Git,IDE \_An alternate Webstrorm version

Install node and npm(latest version).

Install git,there are multiple reasons for it.

it will allow you to switch to multiple branches, Where we already have starting point for some exercise that we are about to do, which s to for ex implement input mask directive. So we will have a small simple application that is already up and running with all dependcies avalaible , defined in package.json. so you will be able to start application and start developing library immediately. We will have baselines css and so on. This is so that you can focus on advanced aspects of angular and not setup of sample application.

There is another reason for having git install on your system. If you are on windows then with git,you will have bash shell called git bash, which is very convenient to have on your windows machine, especially because it can be installed without administration privillages. So if you dntclick on checkbox that integrates git bash with windows explorer, you dnt need installation privillages for installing git bash and git in general and you will be able to install them in your work computer as well.

After npm and git. We need IDE. Here we will use webstorm IDE. It is paid. But you can install WebStrom EAP(Early access program)

4)Installing The Lessons Code – Learn About Git Remote vs Local Branches

Lets now install lessons code switch to a new branch and start implementing our first library.

Go to this path-

<https://github.com/angular-university/angular-advanced-course>

clone this repository. Using git clone command.

Now we will verify on which branch we are, we should be on master branch. so run this command-

**git branch**

it will tell you on which branch you are. We are on master branch.

Then run-

**git branch –r**

it gives you all remote branches avalaible. You will see different branches as in video but you will see the initial starting point of the code.so au-input will be the name of node module that we are about to develop and we will explain its name later.

right now we want to bring this code locally here. So run this-

**git checkout -b au-input origin/au-input**

here au-input is name of local branch that we are about to create. This can be anything. Now second argument(au-input)t defines which remote branch we want to bring here locally. Now if you run thins command and then run this-

**git branch**

you will see that you are in local au-input l branch(or new branch that you have created if you gave different name to your local branch).so this will be our starting point for development.

With this we have lessons code locally and we know how to switch multiple brnaches that we will using through out course. Right now we have 2 local branches- master and new that we have created. You can see that by running **git branch ,** to see remote branches run **git branch -r**

To know more about branches –

<https://www.atlassian.com/git/tutorials/using-branches/git-checkout>

5)Installing yarn and CLI, Setting Up Development Server

Install angular cli and yarn globally.

**npm install –g yarn**

now install project dependencies. Go to project folder, there we will have file called yarn.lock. it has all the dependencies that our project needs. Install them by, running this-

**yarn**

you need to be in path where we have file called yarn.lock. now we dnt need to run npm install.

then run **npm start** to run our code. Open localhost:4200, here we can see starting point of our first library. So now we are going to start implementing our first library. Sow eare going to be actually publishing it on npm. this looks like small application but we will derive a publishable library from it. We will run test on it. We will make sure that it works in aot mode.

This looks like small application