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Angular datepicker tutorial

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In this video we will discuss

- Why is not a good practice to use the browser built-in DatePicker control
- Installing ngx-bootstrap
- Using ngx-bootstrap datepicker in Angular

Why is not a good practice to use the browser built-in DatePicker control : This is because the implementation of datepicker is different from browser vendor to vendor. This means our end users may have different experience depending on the browser they use. Let us understand this with an example.

On our **"Create Employee"** form we want to capture **Date of Birth** of an employee. **Datepicker** control is very useful in capturing dates from users. When we use the HTML5 input type date, the browser automatically displays it's built-in datepicker control. Include the following piece of HTML on **"create-employee.component.html"** file

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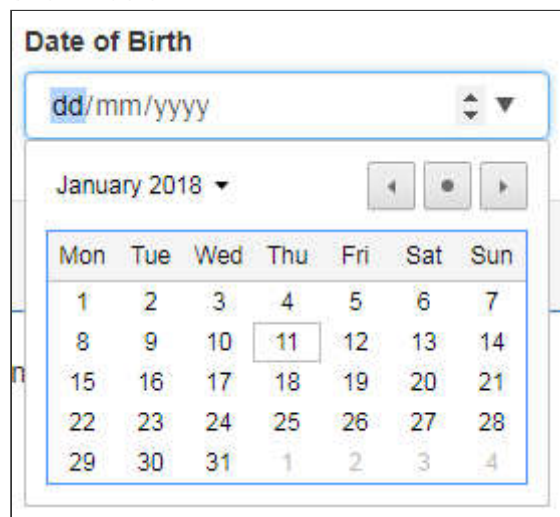
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just below the "Department" field HTML

```
<div class="form-group">
  <label for="dateOfBirth">Date of Birth</label>
  <input id="dateOfBirth" name="dateOfBirth" [(ngModel)]="dateOfBirth"
    type="date" class="form-control" />
</div>
```

Notice we have set the input element type to date. At this point if we run the project and navigate to <http://localhost:4200/create> in Google chrome, we see the date-picker as shown below.



The screenshot shows a date picker control with the title "Date of Birth". The input field displays "dd/mm/yyyy". Below the input field, a calendar for "January 2018" is shown. The calendar has a grid of days from 1 to 31. The day "11" is highlighted with a blue border. Navigation buttons (previous, current, next) are visible above the calendar grid.

Now, if we navigate to the same url in firefox, we see a date-picker control that is very different from the date-picker control that is on Google chrome browser.

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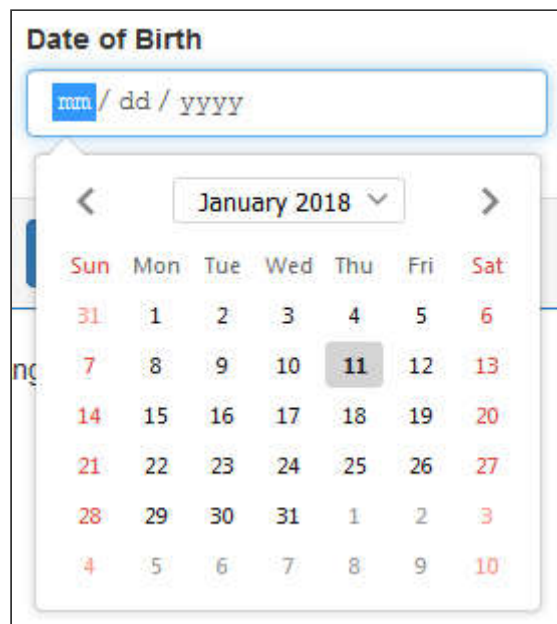
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So, this means our end users have different experience depending on the browser they use. What we want here is consistency. There are many third party Date-picker controls that we can use, to provide consistent experience to our end users. ngx-bootstrap datepicker control is one of them.

Please refer to the UI components section on the following page, to see the list of all third party UI components that we can use in Angular

<https://angular.io/resources>

Installing ngx-bootstrap : The following are the steps to install ngx-bootstrap

Step 1 : Execute the following command to npm install ngx-bootstrap

`npm install ngx-bootstrap --save`

Step 2 : If you do not have Bootstrap installed, please install it using the following npm command. If you are following along we have already installed bootstrap in Part 1 of this Angular CRUD tutorial. So I am not going to execute this command again.

`npm install bootstrap@3 --save`

Please note : We are using Bootstrap 3. We can also use Bootstrap 4 with ngx-

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bootstrap. Please refer to the documentation available at the following link on how to use Bootstrap 4 with ngx-bootstrap.

<https://valor-software.com/ngx-bootstrap/#/getting-started>

Step 3 : Once Bootstrap is installed, open .angular-cli.json file and specify the path to the Bootstrap stylesheet (bootstrap.min.css) in the styles property as shown below. Again, we have already done this in **Part 1** of **Angular CRUD tutorial**.

```
"styles": [  
  "../node_modules/bootstrap/dist/css/bootstrap.min.css",  
  "styles.css"  
]
```

Using ngx-bootstrap datepicker in Angular : The following are the steps to use ngx-bootstrap datepicker in Angular

Step 1 : In app.module.ts file, include the following import statement to import BsDatepickerModule

```
import { BsDatepickerModule } from 'ngx-bootstrap/datepicker';
```

Also, include BsDatepickerModule in the imports array of @NgModule decorator as shown below

```
@NgModule({  
  imports: [BsDatepickerModule.forRoot(),...]  
})
```

Step 2 : In "create-employee.component.html" file, make the following 2 changes to the HTML that displays the "Date of Birth" field

- Change the "type" attribute value from "date" to "text"
- Include "bsDatepicker" directive on the input element

```
<div class="form-group">  
  <label for="dateOfBirth">Date of Birth</label>  
  <input id="dateOfBirth" name="dateOfBirth" [(ngModel)]="dateOfBirth"  
    type="text" bsDatepicker class="form-control" />  
</div>
```

Step 3 : Include a reference to the bs-datepicker.css file in .angular-cli.json file.

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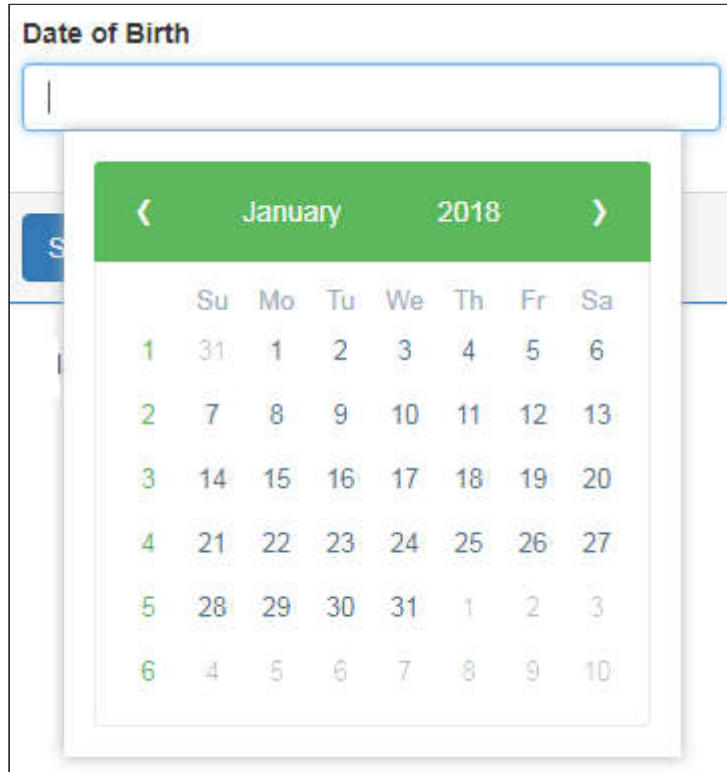
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```
"styles": [  
  "../node_modules/bootstrap/dist/css/bootstrap.min.css",  
  "../node_modules/ngx-bootstrap/datepicker/bs-datepicker.css",  
  "styles.css"  
]
```

At this point when you view the page in Google chrome or Firefox, you get the same datepicker and hence the same experience.



When we select a date from the date-picker control, the "Date of Birth" textbox is automatically populated with the selected date and it is also captured by the angular generated form model.

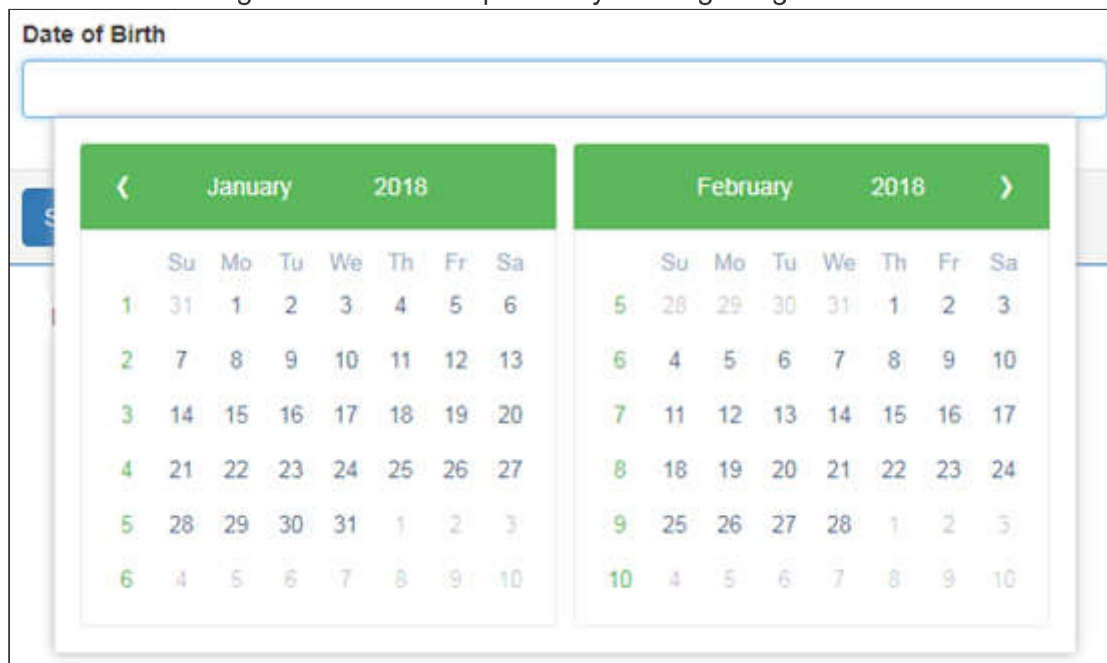
With this datepicker control, it is also very easy to capture a date range. For example, you have an open job role, and you want to capture a date range for accepting CV's, we can very easily do this. All we have to do is use bsDaterangepicker

directive instead of bsDatepicker directive on the input element as shown below.

```
<div class="form-group">
  <label for="dateOfBirth">Date of Birth</label>
  <input id="dateOfBirth" name="dateOfBirth" [(ngModel)]="dateOfBirth"
    type="text" bsDaterangepicker class="form-control" />

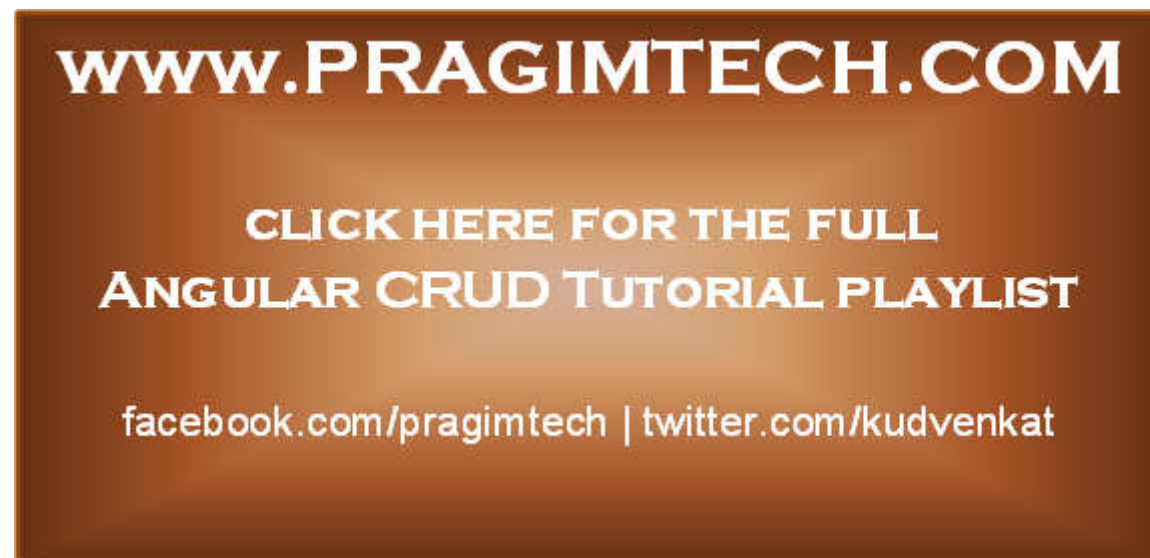
</div>
```

The above simple change, will display Daterange picker as shown below. When we select a date range, the corresponding input field is automatically populated with the selected date range and it is also captured by the angular generated form model.



- At the moment, the Datepicker is using the **default green theme**. We want to change it to **dark-blue theme**, so it matches with the rest of the form.
- The date is captured in the textbox in mm/dd/yyyy format. We want to change it to dd/mm/yyyy format
- At the moment there is no default date. We want to set a default date
- The input element is spanning across the entire width of the form. We want to limit it's width

Datepicker is a highly configurable component. We will discuss how to do all of the above in our next video.



14 comments:

Anonymous April 10, 2018 at 7:01 PM

hi venkat, your videos are good, i' m getting this error while i want to implement bootstrap@4 version

could you please letme know how to solve this problem ???

```
ERROR in ./.node_modules/css-loader?
{"sourceMap":false,"importLoaders":1}!./node_modules/postcss-loader/lib?
{"ident": "postcss", "sourceMap": false}!./node_modules/sass-loader/lib/loader.js?
{"sourceMap": false, "precision": 8, "includePaths":
[]!./node_modules/bootstrap/scss/bootstrap.scss Module build failed: BrowserslistError:
Unknown browser major at error (E:*****\node_modules\browserslist\index.js:37:11)
at Function.browserslist.checkName
```

```
(E:*****\node_modules\browserslist\index.js:320:18)      at      Function.select
(E:*****\node_modules\browserslist\index.js:438:37)      at
E:*****\node_modules\browserslist\index.js:207:41 at Array.forEach () at browserslist
(E:*****\node_modules\browserslist\index.js:196:13)      at      Browsers.parse
(E:*****\node_modules\autoprefixer\lib\browsers.js:44:14) at new      Browsers
(E:*****\node_modules\autoprefixer\lib\browsers.js:39:28) at      loadPrefixes
(E:*****\node_modules\autoprefixer\lib\autoprefixer.js:56:18) at      plugin
(E:*****\node_modules\autoprefixer\lib\autoprefixer.js:62:18) at LazyResult.run
(E:*****\node_modules\postcss-loader\node_modules\postcss\lib\lazy-
result.js:270:20) at LazyResult.asyncTick (E:*****\node_modules\postcss-
loader\node_modules\postcss\lib\lazy-result.js:185:32) at LazyResult.asyncTick
(E:*****\node_modules\postcss-loader\node_modules\postcss\lib\lazy-
result.js:197:22) at LazyResult.asyncTick (E:*****\node_modules\postcss-
loader\node_modules\postcss\lib\lazy-result.js:197:22) at
processing.Promise.then._this2.processed (E:*****\node_modules\postcss-
loader\node_modules\postcss\lib\lazy-result.js:224:20) at new Promise () @
./node_modules/bootstrap/scss/bootstrap.scss 4:14-164 @ multi
./node_modules/bootstrap/scss/bootstrap.scss ./node_modules/font-awesome/scss/font-
awesome.scss ./node_modules/ng2-toastr/bundles/ng2-toastr.min.css
./node_modules/owl.carousel/dist/assets/owl.carousel.css
./node_modules/owl.carousel/dist/assets/owl.theme.default.css ./node_modules/froala-
editor/css/froala_editor.pkgd.min.css ./node_modules/froala-
editor/css/froala_style.min.css ./node_modules/ng-pick-
datetime/assets/style/picker.min.css ./src/styles.scss
```

Reply

Anonymous April 14, 2018 at 1:45 PM

i got same error but i resolved using npm uninstall bootstrap@4 --save

then again npm install@3 --save

if anyone find to implement bootstrap 4 let me know

Reply

Anonymous May 29, 2018 at 4:12 AM

Cannot read property 'schedule' of undefined issue

Reply



Sumon June 5, 2018 at 4:45 AM

BsDatepickerModule is under development,
BREAKING CHANGES are possible,
PLEASE, read changelog

Firstly, above warning messages shows
and then, when i clicked into the textbox it gives below error
BsDatepickerContainerComponent_Host.ngfactory.js? [sm]:1 ERROR TypeError:
Cannot read property 'schedule' of undefined
at ObserveOnSubscriber.scheduleMessage (observeOn.js:99)
at ObserveOnSubscriber._error (observeOn.js:105)
at ObserveOnSubscriber.Subscriber.error (Subscriber.js:108)
at BehaviorSubject.Observable._trySubscribe (Observable.js:177)
at BehaviorSubject.Subject._trySubscribe (Subject.js:97)
at BehaviorSubject.Observable.subscribe (Observable.js:160)
at ObserveOnOperator.call (observeOn.js:74)
at AnonymousSubject.Observable.subscribe (Observable.js:157)
at ScanOperator.call (scan.js:72)
at AnonymousSubject.Observable.subscribe (Observable.js:157)

Reply



Sunil June 15, 2018 at 3:50 AM

how to validate in angular 4 datepicker ?

Reply



chinmaya parija July 15, 2018 at 6:05 AM

Hello venkat,
i got bellow error
ERROR TypeError: Unable to get property 'schedule' of undefined or null reference
kindly help me

Reply



Vijay July 15, 2018 at 11:30 PM

Hi,

I am Getting Billow Error while implementing this DatePicker

```
ERROR TypeError: "this.scheduler is undefined"
scheduleMessagewebpack-
internal:///.../rxjs/_esm5/operators/observeOn.js:105:9_errorwebpack-
internal:///.../rxjs/_esm5/operators/observeOn.js:111:9errorwebpack-
internal:///.../rxjs/_esm5/Subscriber.js:110:13_trySubscribewebpack-
internal:///.../rxjs/Observable.js:177:13_trySubscribewebpack-
internal:///.../rxjs/Subject.js:97:20subscribewebpack-
internal:///.../rxjs/Observable.js:160:88callwebpack-
internal:///.../rxjs/_esm5/operators/observeOn.js:80:16
```

Reply



Unknown October 31, 2018 at 1:12 AM

Hi Venkat,encountered below prob when installed ngx-bootstrap. My bootstrap version is 3.3.7.

```
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for
fsevents@1.2.4: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
```

Reply



Dinesh Marathe November 27, 2018 at 3:05 AM

use command for bootstrap 4: `npm install bootstrap@3.3.7 --save`

Reply

Replies



Dinesh Marathe November 28, 2018 at 4:33 AM

```
npm install bootstrap@3.3.7 --save
```

Reply



Ajay Saini January 18, 2019 at 5:54 AM

there is no error in shown but datepicker is not working means not shown any date picker only textbox is shown

Reply

Replies



Vijay Maurya February 17, 2019 at 9:30 AM

I am facing same error but when i use proper order in app module it work for me
imports: [
BrowserModule,FormsModule,
BsDatepickerModule.forRoot(),
RouterModule.forRoot(appRoutes),
AppRoutingModule,
],

Reply



jayesh gupta February 1, 2019 at 11:06 PM

Hi kudvenkat sir, can u help me on this when i am selecting the date from date-picker control loses it's focus so how cab handle this problem

Reply



Unknown April 9, 2019 at 2:34 AM

Hi Venkat,

Thanks for the wonderful video. I have got some error, when implement date picker please help.

Error Below :

ERROR in node_modules/ngx-bootstrap/chronos/utils/type-checks.d.ts(8,62): error TS2304: Cannot find name 'Extract'.

node_modules/ngx-bootstrap/datepicker/reducer/bs-datepicker.actions.d.ts(5,33): error TS1039: Initializers are not allowed in ambient contexts.

Thanks

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