**Angular 12 How to Check All/ Uncheck All Checkbox List**

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<https://www.freakyjolly.com/check-uncheck-all-checkbox-list-in-angular/>

In this tutorial, we will learn how to check all and uncheck all checkboxes in the checkbox list using a master or parent checkbox in Angular. We will create an example application demonstrating the check all uncheck all features.

This Angular post is compatible with Angular 4 upto latest versions, Angular 7, Angular 8, Angular 9, Angular 10, Angular 11 & Angular 12

On top of the checkbox list, we add a master or parent checkbox, the checked or unchecked state of which can control the state of child checkbox items.

We will go through step by step to discuss how to add check/ uncheck all checkboxes in a list using a master checkbox.

Let’s go ahead and follow few quick steps to get a checkbox list with check/uncheck all as shown below:

Graphical user interface

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**How to Check and Uncheck All Checkboxes in Angular?**

Follow the steps to add check/ uncheck all checkboxes:

* **Step 1 –** Create Angular Application
* **Step 2 –** Import FormsModule in App Module
* **Step 3 –** Add Bootstrap Style
* **Step 4 –** Update Component Class
* **Step 5 –** Update HTML Template
* **Step 6 –** Run Application

**Step 1 – Create Angular Application**

To start, create a new application by executing the below ng command in the terminal window:

$ ng new angular-checkbox-list-app

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Then, move into the application directory:

$ cd angular-checkbox-list-app

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**Step 2 – Import FormsModule in App Module**

To use forms in our application, we need to import the FormsModule to use forms API. Open the app.module.ts file and update as shown below:

import { NgModule } from '@angular/core';

import { BrowserModule } from '@angular/platform-browser';

import { AppComponent } from './app.component';

import { FormsModule } from '@angular/forms';

@NgModule({

declarations: [

AppComponent

],

imports: [

BrowserModule,

FormsModule

],

providers: [],

bootstrap: [AppComponent]

})

export class AppModule { }

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**Step 3 – Add Bootstrap Style**

To use bootstrap styles, we can quickly install the bootstrap package and update the angular.json file as shown below:

$ npm install bootstrap

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Now, open the **angular.json** file at application root, and update the “styles” property with **bootstrap.min.css** file as shown below:

"styles": [

"src/styles.scss",

"./node\_modules/bootstrap/dist/css/bootstrap.min.css"

],

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**Step 4 – Update Component ts File**

In the component class file, we will add the dynamic list checklist as a JSON object. Then add the checkUncheckAll(), isAllSelected() and getCheckedItemList() methods.

* checkUncheckAll() : It will check/ uncheck all the items, triggered from the master checkbox.
* isAllSelected() : This method checks, if all the checkboxes is checked or not.
* getCheckedItemList() : Returns the list of checked checkboxes items as a JSON object.

Open the **app.component.ts** file and update it with the following code:

import { Component } from '@angular/core';

@Component({

selector: 'app-root',

templateUrl: './app.component.html',

styleUrls: ['./app.component.scss']

})

export class AppComponent {

title = 'Select/ Unselect All Checkboxes in Angular - FreakyJolly.com';

masterSelected:boolean;

checklist:any;

checkedList:any;

constructor(){

this.masterSelected = false;

this.checklist = [

{id:1,value:'Elenor Anderson',isSelected:false},

{id:2,value:'Caden Kunze',isSelected:true},

{id:3,value:'Ms. Hortense Zulauf',isSelected:true},

{id:4,value:'Grady Reichert',isSelected:false},

{id:5,value:'Dejon Olson',isSelected:false},

{id:6,value:'Jamir Pfannerstill',isSelected:false},

{id:7,value:'Aracely Renner DVM',isSelected:false},

{id:8,value:'Genoveva Luettgen',isSelected:false}

];

this.getCheckedItemList();

}

// The master checkbox will check/ uncheck all items

checkUncheckAll() {

for (var i = 0; i < this.checklist.length; i++) {

this.checklist[i].isSelected = this.masterSelected;

}

this.getCheckedItemList();

}

// Check All Checkbox Checked

isAllSelected() {

this.masterSelected = this.checklist.every(function(item:any) {

return item.isSelected == true;

})

this.getCheckedItemList();

}

// Get List of Checked Items

getCheckedItemList(){

this.checkedList = [];

for (var i = 0; i < this.checklist.length; i++) {

if(this.checklist[i].isSelected)

this.checkedList.push(this.checklist[i]);

}

this.checkedList = JSON.stringify(this.checkedList);

}

}

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**Step 5 – Update HTML Template**

Next, open the **app.component.html** file and update it with the following template HTML code:

<div style="text-align:center">

<h1>

{{ title }}

</h1>

</div>

<div class="container">

<div class="text-center mt-5">

<div class="row">

<div class="col-md-6">

<ul class="list-group">

<li class="list-group-item">

<input type="checkbox" [(ngModel)]="masterSelected" name="list\_name" value="m1"

(change)="checkUncheckAll()" /> <strong>Select/ Unselect All</strong>

</li>

</ul>

<ul class="list-group">

<li class="list-group-item" \*ngFor="let item of checklist">

<input type="checkbox" [(ngModel)]="item.isSelected" name="list\_name" value="{{item.id}}"

(change)="isAllSelected()" />

{{item.value}}

</li>

</ul>

</div>

<div class="col-md-6">

<code>{{checkedList}}</code>

</div>

</div>

</div>

</div>

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**Step 6 – Run Application**

To see the implementation in action, execute the following command to run the application in the browser:

$ ng serve –open

It will open the application at the following URL:

http://localhost:4200

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**Conclusion**

We have implemented the Select/ Unselect checkbox list in Angular which will look as shown in the image above. The checkbox list is having a master or parent checkbox, which controls the checked or unchecked state. We have also added a method to keep watch, if all the checkboxes is manually checked the parent checkbox will be auto-checked. You can check the working demo [here](https://freakyjolly.com/demo/Angular/Angular7/NG7CheckBox/).