

Ionic 5 Installation Guide:

Setup the Environment

1. Install Node.js.
 - a. Reason: To use *npm* as all modern JavaScript/TypeScript project is based in Node.js
 - b. Recommendation: Use LTS version
 - c. Link: <https://nodejs.org/en/>
 - d. Verifying:
 - i. `node -version` or `node -v`
 - ii. `npm -version` or `npm -v`
2. Install Ionic
 - a. Command: `npm install -g ionic` or `npm i -g ionic`
 - i. `-g` for global
3. Install Visual Studio Code
 - a. Link: <https://code.visualstudio.com/>
4. Install Git(Optional)
 - a. Reason: centralizing team code development
 - b. Link: <https://git-scm.com/downloads>

Creating Ionic Application

1. Create yourApp
 - a. Command: `ionic start yourApp blank` or `ionic start yourApp blank --type=angular`
 - i. To check other type of ionic project types:
 1. Command: `ionic start --list`
2. Choose Framework
 - a. Angular.io
 - i. Reason to use:
 1. More stable
 2. Automatically initialize git repo
 - b. Reactjs.org
 - c. Vuejs.org
3. Enter Project Folder
 - a. Command: `cd yourApp`
4. Run yourApp
 - a. Command: `ionic serve`
 - i. yourApp will be running at localhost:8100

Ionic Basic Activity

1. File structure
 - a. Html – item or component structure
 - b. Scss - styling
2. Insert picture
 - a. Refer tutorialapp
3. Set background image
 - a. Refer tutorialapp
4. Create page

- a. Commands: ionic generate page folderName/pageName
 - i. Ex: ionic generate page pages/profile
- 5. Create Side Menu
- 6. Pages navigation

Previously after create some pages, you should have something looks like this in app-routing.module.ts

```
const routes: Routes = [  
  { path: '', redirectTo: 'home', pathMatch: 'full' },  
  { path: 'home', loadChildren: () => import('./pages/home/home.module').then( m => m.HomePa  
  { path: 'profile', loadChildren: './pages/profile/profile.module#ProfilePageModule' },  
  { path: 'login', loadChildren: './pages/login/login.module#LoginPageModule' },  
];
```

Change it to this:

```
✓ const routes: Routes = [  
  { path: '', loadChildren: './pages/menu/menu.module#MenuPageModule' },  
];
```

This is because you are going to create your routing path in the menu file specifically menu.module.ts.

Initially it would look like this:

```
const routes: Routes = [  
  {  
    path: '',  
    component: MenuPage  
  }  
];
```

Change it to something like this:

```
const routes: Routes = [
  {
    path: 'menu',
    component: MenuPage,
    children: [
      {
        path: 'home',
        loadChildren: '../home/home.module#HomePageModule'
      },
      {
        path: 'profile',
        loadChildren: '../home/home.module#ProfilePageModule'
      }
    ]
  },
  {
    // this is to set the landing page
    path: '',
    redirectTo: '/menu/home'
  }
];
```

The menu will become the master route, and other pages will load as children of the menu. You can also set the initial page by setting default path.

Next, go to the menu function page which is the menu.page.ts

Here you will add/declare an array of pages that you will call

```
pages = [
  {
    title: 'Home Page',
    url: '/menu/first'
  },
  {
    title: 'Profile Page',
    url: '/menu/profile'
  }
];
```

Next you need to declare variable call selectedpath to track your current page

```
selectedPath = '';
```

Thus you need to import router, this will track you based on url clicked

```

constructor(private router: Router) {
  this.router.events.subscribe((event: RouterEvent) => {
    this.selectedPath = event.url;
  });
}

```

Now, for the actual component structure in menu.page.html

```

<ion-split-pane>
  <ion-menu contentId="content">

    <!-- the header holding the toolbar -->
    <ion-header>

      <!-- the side toolbar -->
      <ion-toolbar>

        <!-- the toolbar title -->
        <ion-title>
          The Side Menu
        </ion-title>
      </ion-toolbar>
    </ion-header>

    <!-- the content -->
    <ion-content>

      <!-- to display the list -->
      <ion-list>

        <!-- to toggle the list content through for loop the array of pages-->
        <ion-menu-toggle auto-hide="false" *ngFor="let p of pages">
          <!-- call the url based on page clicked,
          routerDirection for animation,
          class.active-item is a scss to indicate current page -->
          <ion-item [routerLink]="p.url" routerDirection="root" [class.active-item]="selectedPath === p.url">
            {{ p.title }}
          </ion-item>
        </ion-menu-toggle>
      </ion-list>
    </ion-content>
  </ion-menu>

  <!-- the ion router is to display the content,
  while main is to tell ionic this is the main router outlet -->
  <ion-router-outlet id="content" main>

    </ion-router-outlet>
  </ion-split-pane>

```

Just read the comment, it's too long to explain

You also need to add some menu button to open the menu option at the toolbar

```

<ion-header>
  <ion-toolbar>
    <!-- the slot is to set the menu button on the left,
    start = left -->
    <ion-buttons slot="start">
      <!-- the menu button -->
      <ion-menu-button></ion-menu-button>
    </ion-buttons>
    <ion-title>
      Home Page
    </ion-title>
  </ion-toolbar>
</ion-header>

```

7. Use textbox
8. Use button
 - a. Another way to navigate
9. Layout / ion-grid
10. Capture data
11. MySQL integration
12. CRUD function
13. Splash Screen
14. App Icon