



# Angular 2

Http service

## REGISTER HTTP SERVICE IN NGMODULE

The `HttpModule` is not a core Angular module. It's Angular's optional approach to web access and it exists as a separate add-on module called `@angular/http`, shipped in a separate script file as part of the Angular npm package.

```
@NgModule({  
  imports: [  
    BrowserModule,  
    FormsModule,  
    HttpModule  
  ],  
  declarations: [  
    AppComponent,  
    HeroDetailComponent,  
    HeroesComponent,  
  ],  
  providers: [ HeroService ],  
  bootstrap: [ AppComponent ]  
})  
export class AppModule { }
```

## GET INFORMATION FROM SERVER IN COMPONENT

```
private heroesUrl = '/heroes'; // URL to web api
constructor(private http: Http) { }
```

```
getHeroes(): Promise<Hero[]> {
  return this.http.get(this.heroesUrl).toPromise()
    .then(response => response.json() as Hero[])
    .catch(this.handleError);
}

private handleError(error: any): Promise<any> {
  return Promise.reject(error.message || error);
}
```

Angular http.get returns an RxJS Observable. We use toPromise() to get promise.

```
heroes: Hero[];
ngOnInit() {
  this.getHeroes().then(heroes => this.heroes = heroes);
}
```

```
template: `<ul><li *ngFor="let hero of heroes">{{hero.name}}</li></ul>`
```

## RETRIEVE VALUE BY ID

```
getHero(id: number): Promise<Hero> {
  const url = `${this.heroesUrl}/${id}`;
  return this.http.get(url)
    .toPromise()
    .then(response => response.json() as Hero)
    .catch(this.handleError);
}
```

selectedHero: Hero;

```
openHero(id:number) {
  this.getHero(id).then(hero=>this.selectedHero = hero);
}
```

Template will look this way:

```
<ul>
  <li *ngFor="let hero of heroes">
    <a (click)="openHero(hero.id)">open Hero {{hero.name}} </a>
  </li>
</ul>
```

## ADD NEW OBJECT

```
<div>
  <label>Hero name:</label> <input #heroName />
  <button (click)="add(heroName.value); heroName.value=''">
    Add
  </button>
</div>
```

```
add(name: string): void {
  name = name.trim();
  if (!name) { return; }
  this.saveHero(name).then(hero => {
    this.heroes.push(hero); this.selectedHero = null; });
}

saveHero(name: string): Promise<Hero> {
  return this.http
    .post(this.heroesUrl, {name: name}).toPromise()
    .then(res => res.json())
    .catch(this.handleError);
}
```

A horizontal arrangement of various geometric shapes and icons in shades of blue and white. It includes circles, triangles, squares, and icons representing gears, a lightbulb, and a globe.

**Thank you  
and have a great Angular 2  
experience!**



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