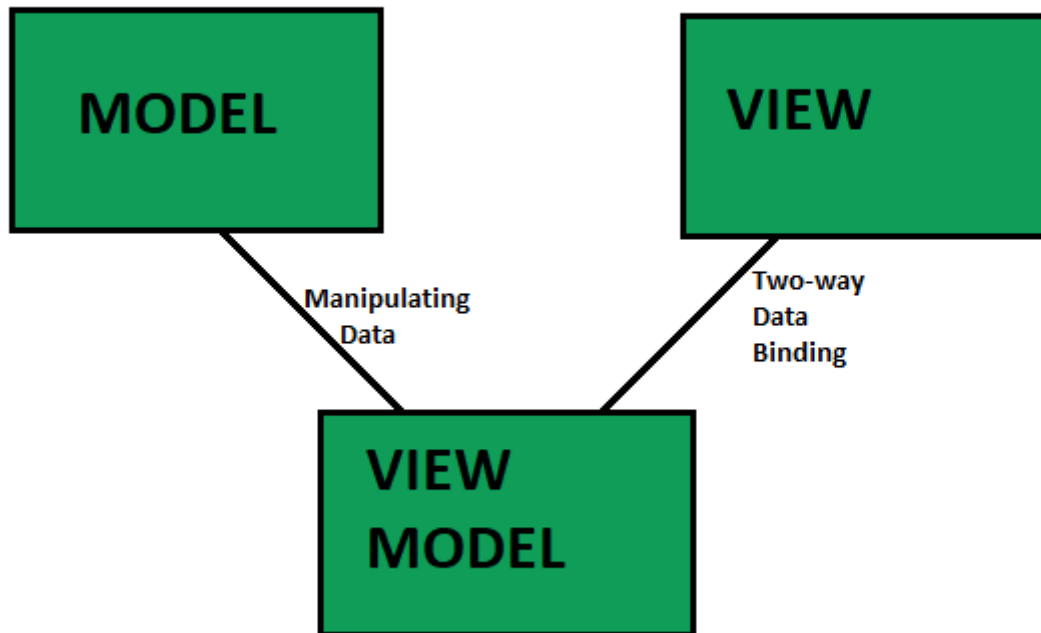


Software Architecture Angular

MVVM (Model View View Model)



- **MODEL:**(Reusable Code – DATA) Business Objects that encapsulate data and behavior of application domain, Simply hold the data.
- **VIEW:** (Platform Specific Code – USER INTERFACE) What the user sees, The Formatted data.
- **VIEWMODEL:** (Reusable Code – LOGIC) Link between Model and View OR It Retrieves data from Model and exposes it to the View. This is the model specifically designed for the View.

Model

```
export interface User {  
  id: number;  
  name: string;  
  email: string;  
}
```

ViewModel

```
import { Injectable } from '@angular/core';  
import { User } from './user.model';  
  
@Injectable({  
  providedIn: 'root',
```

```
})  
export class UserService {  
  private user: User = {  
    id: 1,  
    name: 'John Doe',  
    email: 'john.doe@example.com'  
  };  
  
  getUser(): User {  
    return this.user;  
  }  
  
  updateUser(userData: User): void {  
    this.user = userData;  
  }  
}
```

View

```
import { Component } from '@angular/core';  
import { User } from '../user.model';  
import { UserService } from '../user.service';  
  
@Component({  
  selector: 'app-user-profile',  
  templateUrl: './user-profile.component.html',  
  styleUrls: ['./user-profile.component.css']  
})  
export class UserProfileComponent {  
  user: User;  
  
  constructor(private userService: UserService) {  
    this.user = this.userService.getUser();  
  }  
  
  updateUser(): void {  
    this.userService.updateUser(this.user);  
  }  
}
```

```
<div>  
  <h2>User Profile</h2>  
  <form>  
    <label>ID: {{user.id}}</label><br>  
    <label>Name:</label>  
    <input [(ngModel)]="user.name" type="text"><br>  
    <label>Email:</label>  
    <input [(ngModel)]="user.email" type="email"><br>  
    <button type="button" (click)="updateUser()">Update</button>  
  </form>  
</div>
```

```
</form>  
</div>
```