Angular Interview Preparation Guide

1. Component, Template & Module Basics

this.inputElement.nativeElement.focus();

}

A component in Angular is a TypeScript class decorated with @Component, which controls a part of the UI. It consists of: - HTML (template) - CSS (styling) - TypeScript (logic) Example: @Component({ selector: 'app-user', templateUrl: './user.component.html' }) export class UserComponent { name = 'Sonali'; } 2. ViewChild & ViewChildren @ViewChild: Access a child component or DOM element. Example: @ViewChild('inputRef') inputElement!: ElementRef; ngAfterViewInit() {

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```
@ViewChildren: Query multiple elements.
@ViewChildren('item') items!: QueryList<ElementRef>;
ngAfterViewInit() {
this.items.forEach(item => console.log(item.nativeElement));
}
3. ng-content
Used for content projection (like slots). Allows parent components to pass HTML/content to child
components.
Example:
<!-- Parent -->
<app-card>Content here</app-card>
<!-- Child -->
<div class="box"><ng-content></ng-content></div>
4. Reactive vs Template-driven Forms
Reactive Forms: Code-based using FormGroup and FormControl.
Template-driven: Uses ngModel.
Example (Reactive):
form = new FormGroup({
name: new FormControl(", Validators.required)
```

});

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5. Subject vs BehaviorSubject

Subject: Emits values to subscribers.

BehaviorSubject: Same, but holds initial value and emits latest value to new subscribers.

```
Example:
```

```
const subject = new Subject<string>();
const behavior = new BehaviorSubject<string>('default');
```

6. Observable vs Subject

Observable: Unicast, doesn't act as observer.

Subject: Multicast, acts as observer and observable.

Use Subject for event sharing.

7. Routing & Navigation

```
Example:
```

```
const routes: Routes = [
    { path: 'home', component: HomeComponent },
    { path: 'profile/:id', component: ProfileComponent }
];
this.router.navigate(['/profile', userId]);
```