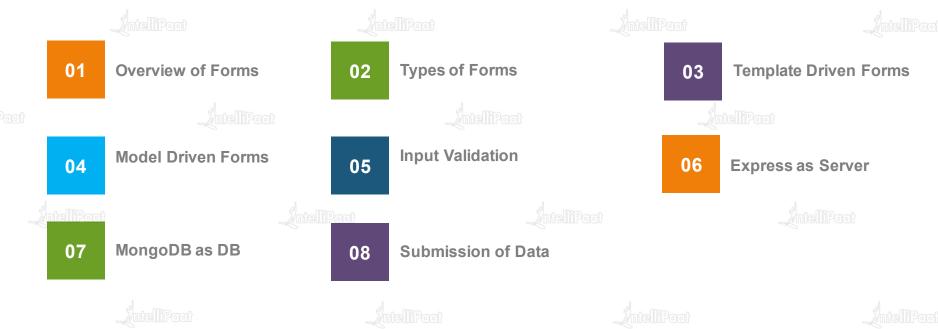




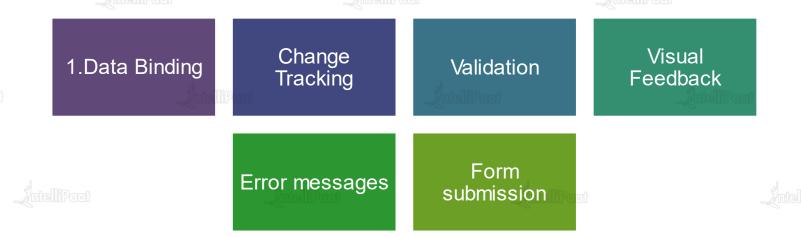
Agenda



What are forms?



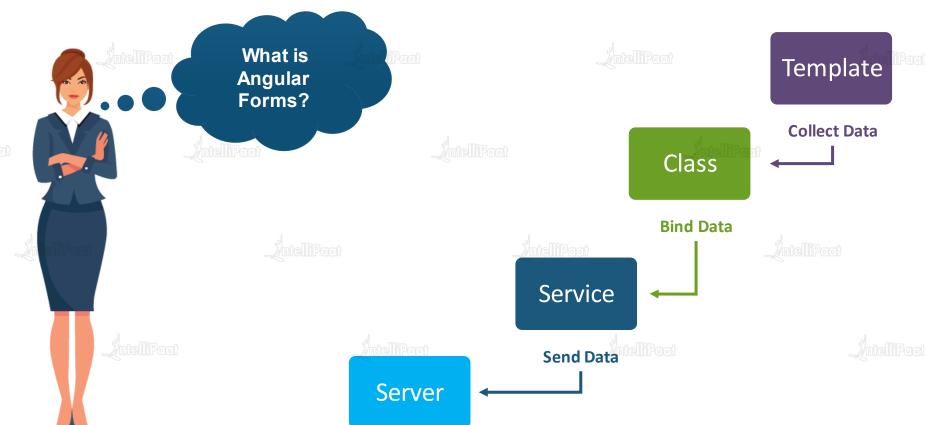
- Forms are very important to your business applications.
- As a developer we need to take care of below points:



Angular Forms



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Types of forms





What are Types of forms?

Reactive Forms

(Heavy on component class)

•More robust.

•More scalable, reusable, and testable.

Template Drive forms

(Heavy on component template)

Useful for adding a simple form to an app, such as an email list signup form.

Easy to add to an app, but they don't scale as much as reactive forms.

Template Drive Forms (TDF)





What is TDF?

- Easy to use and very much similar to Angular
 JS forms
 - Rely on two way data binding with ngModel
 - Heavy HTML code and minimal component code.
- Automatically tracks the form and form elements state and validity
- Drawback is the challenge in unit testing
- Readability decreases with complex forms and validation

Model Driven Forms





What is Model Driven Forms?

- Code and the logic resides in the component class
- No two way data binding
- Suited for complex scenarios
- Dynamic form fields
- Custom validations
- Dynamic validation
- Unit test

Key Differences



IntelliPaat	Reactive	Template-Driven
Setup (form model)	More Explicit, created in component class	Less Explicit, created in directives
Data model	Structured	Unstructured
Predictability	Synchronous	Asynchronous
Form Validation	Functions	Directives
Mutability Intelliport	Immutable	Mutable
Scalability	Low-level API access	Abstraction on top of APIs

Steps for TDF



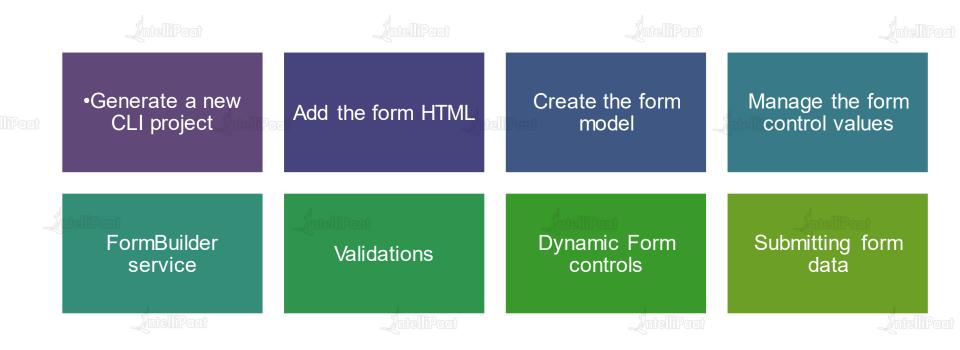


What are the steps
Driven
Forms?

- Generate a new CLI project
- Add the form HTML
- Binding data
- Tracking state and validity
- Providing visual feedback
- Displaying error messages
- Submitting data to server

Steps for Reactive





Form Controls states



State	Class if true	Class if false
The control has been visited	ng-touched	ng-untouched
The control's value has changed	ng-dirty	ng-pristine ng-pristine
The control's value is valid	ng-valid	ng-invalid

Validator Functions





What are the types of validator functions?

Types of Validator Functions

Sync validators

Functions that take a control instance and immediately return either a set of validation errors or null. You can pass these in as the second argument when you instantiate a FormControl.

Async validators

Functions that take a control instance and return a Promise or Observable that later emits a set of validation errors or null. You can pass these in as the third argument when you instantiate a FormControl.

Note: for performance reasons, Angular only runs async validators if all sync validators pass. Each must complete before errors are set.









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