Angular Forms

Lose your personal data in a 'classy' way.

What is a form?

A HTML form is the standard way to gather user input in a website.

What are form controls?

- Form controls are the basic building elements of a form to facilitate user input of data.
- Lots of different native inputs allow browser-native configuration and validation of input values.

```
<form>
   <l
     <
       <label for="text">Text</label>
       <input id="text" type="text" />
     <
       <label for="number">Number</label>
       <input id="number" type="number" />
     <
       <label for="date">Date</label>
       <input id="date" type="date" />
     <
       <label for="password">Password</label>
       <input id="password" type="password" />
     <
       <label for="color">Color</label>
       <input id="color" type="color" />
     <
       <label for="range">Range</label>
       <input id="range" type="range" />
     </form>
```

| CONTACT | | | | | |
|----------|------|------|-----------------|----|---|
| Name: | | | | | |
| E-mail: | | | | | |
| Herooge: | | | | | |
| | | | | | 1 |
| | | | | | |
| | | | General Control | | |
| | SEND | Your | 3 A 223 M | 6) | |

| _Contact | |
|-------------------|--|
| • Name | |
| • E-Mail | |
| | |
| | |
| | |
| | |
| Message | |
| Send Your Message | |

```
<form name="messageForm" action="/message" method="POST">
     <fieldset>
       <legend>Contact</legend>
       <l
         <
          <label for="name">Name</label>
          <input name="name" type="text" id="name" />
         <
          <label for="email">E-Mail</label>
          <input name="email" type="e-mail" id="email" />
         <
          <label for="message">Message</label>
          <textarea name="message" id="message"></textarea>
         <button>Send Your Message
     </fieldset>
   </form>
```

| • Name | | |
|-----------|--|--|
| • E-Mail | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| • Message | | |

Is it really? </p

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Angular forms.

Template driven & Reactive.

- Template driven forms
 - Use two-way data-binding to map data changes between template and code. Validation uses native html validators.
 - Great for simple, quick forms.
- Reactive forms
 - Use an immutable data model for form data, which is independent of the template and unique every time.
 - Good for complex data-heavy forms with cross field or asynchronous validation. Possible to unit test.

Template driven forms

```
import { FormsModule } from '@angular/forms';
@NgModule({
   declarations: [
      AppComponent,
   ],
   imports: [FormsModule],
   providers: [],
   bootstrap: [AppComponent],
})
export class AppModule {}
```

Template driven forms

- Provided by 'FormsModule'.
- Exposes a form model in the template. Each control in the form corresponds to a property of the model.
- Allows binding of different form controls with the 'ngForm' directive.

```
aNgModule({
                             export class Expense {
  declarations: [
                               constructor(
                                 public name: string,
    AppComponent,
                                 public date: string,
  imports: [
                                 public amount: string
    BrowserModule,
    AppRoutingModule,
    HttpClientModule,
    FormsModule,
  providers: [],
 bootstrap: [AppComponent],
export class AppModule {}
```

Template Form task #1: Create Expense Form Component

- 1. Create a separate model file for an expense with the correct interface: expense name, expense date and expense amount.
- 2. Generate a component for the form.
- 3. Update all the form controls with the "name" attribute. The "name" should define the "Expense" parameter that is being updated.