

Angular Template-driven Form Validation

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Angular Form Validation

- Turn off HTML5 form validation:
 <form novalidate>
- Angular takes over responsibility for validation

Angular Template Reference Variables

```
<form novalidate #loginForm="ngForm">
```

```
<input . . . #username="ngModel" . . . >
```

- Template variables set to ngForm and ngModel gives reference to the Angular directive
 - Use this in the template to check for control states such as valid, dirty, errors

Control States

- Use template variable name and its control state to check

State	Description
.pristine	true if field/form has not been changed
.dirty	reverse of .pristine
.valid	true if form field/whole form is valid
.invalid	reverse of .valid

Form Validation Examples

- Disable submit button:
`<button type="submit" . . .
 [disabled]="loginForm.form.invalid">Login</button>`
- Display error message
`<mat-form-field>
 <input matInput placeholder="Username" type="text" [(ngModel)]="user.username"
 name="username" #username="ngModel" required>
 <mat-error *ngIf="username.errors?.required">Username is required</mat-error>
</mat-form-field>`