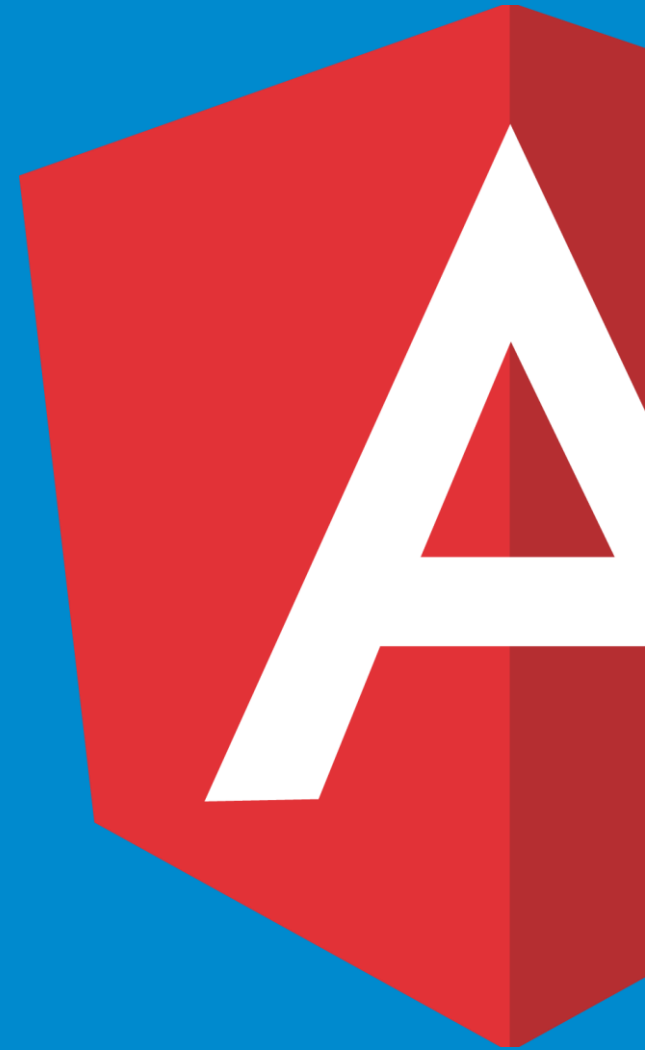


Web-school

Home task 4

# Angular



# Task 4. Directives and Pipes

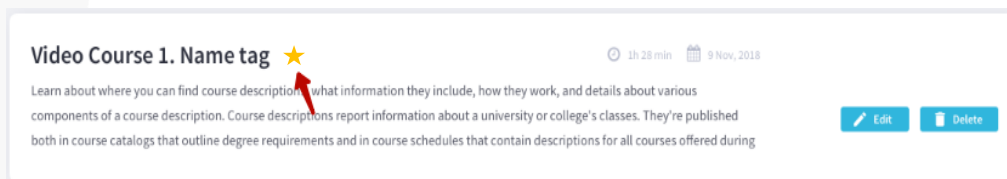
## Directives

1. Create custom directive to change course plate border based on “creationDate”.
  - a. If `creationDate < currentDate && creationDate >= currentDate - 14days` - fresh course (use green border)
  - b. If `creationDate > currentDate - upcoming course` (use blue border) (in this case `creationDate` means the date that the course will be released)
  - c. Other cases - no changes
2. Add no data message using `ngIf`.

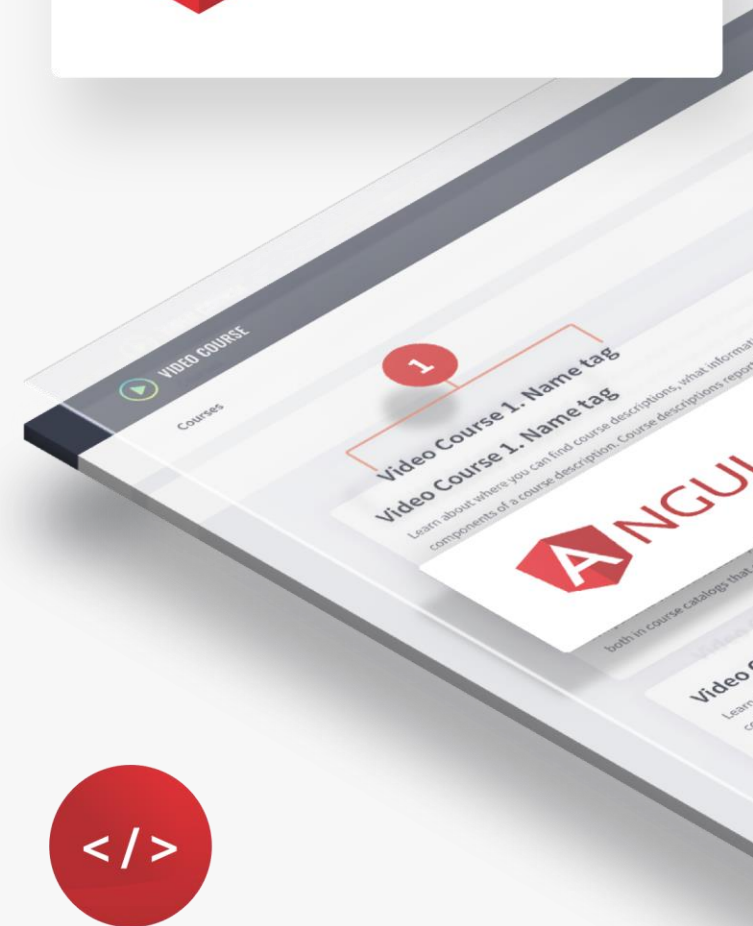


The mockup shows a header with a logo placeholder, 'User Login', and a 'Log off' button. Below is a 'Courses' section with a search bar labeled 'Text to search', a 'Search' button, and an 'Add course' button. A message at the bottom of the section reads 'NO DATA. FEEL FREE TO ADD NEW COURSE'.

3. Add `topRated` field to the course item. If true - star icon should appear, change color background for the whole item card using `ngClass` on course-item component.

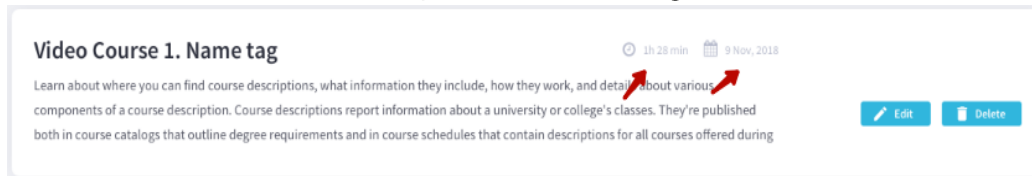


The mockup shows a course item card for 'Video Course 1. Name tag'. It includes a star icon, a duration of '1h 28 min', and a date of '9 Nov, 2018'. The description reads: 'Learn about where you can find course descriptions, what information they include, how they work, and details about various components of a course description. Course descriptions report information about a university or college's classes. They're published both in course catalogs that outline degree requirements and in course schedules that contain descriptions for all courses offered during'. There are 'Edit' and 'Delete' buttons at the bottom right.

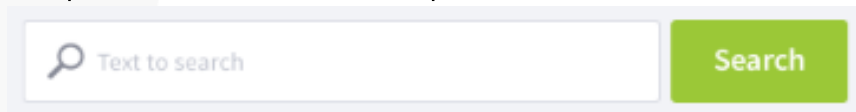


## Pipes:

1. Use built-in pipe to uppercase video course name.
2. Create duration pipe. Should take duration in minutes and format output in hh mm min. (ex: 1h 15min). In case of duration less than 1h display only minutes.
3. Use built-in date pipe for course date. Change mock data to have datetime “creationDate” field instead of preformatted string.



4. Create `orderBy` pipe. Use “creationDate” field to order courses.
5. Create `filter` pipe.
6. Change search behavior. Filter courses list by a name when a user enters some text in the field ‘search’ and presses the ‘Search’ button. Try to use pipes in the component class not in the template.



7. Angular doesn't provide pipes for filtering or sorting lists. We create them only for education purpose. Please, find out why.

<https://v9.angular.io/guide/pipes#appendix-no-filterpipe-or-orderbypipe>

## Related materials:

- <https://angular.io/guide/testing#attribute-directive-testing>
- <https://angular.io/guide/testing#pipe-testing>



Have fun!

## Evaluation criteria

- 2 Implemented built-in directives and pipes.
- 3 Built-in + partially custom pipes and directives. Major issues.
- 4 Built-in + custom. Did all with some issues. orderBy not implemented.
- 5 Did all above including orderBy pipe without major issues.

### Extra task

- + Proceed with unit testing. Now you have your custom directives and pipes. It's time to cover them with unit tests