**Task 9: RxJs**

Add rx into your app

1. Change search box behavior. Remove search button. Now we need to call API once user type something into the search input. To do this please follow the next steps:

Use ngChange directive to handle input changes. Create Observable in your component and changes its value on input change (use .next)

Add api call on each user input event

1. Since we don’t want to spam our service add filter by input value and do not call API until user enter at least 3 chars.
2. Add debounce to prevent API calls until user stop typing.
3. Reveal user data using RxJs from service. Subscribe in header component to user data to show actual info in the header.
4. Change logic of auth guard. Now use Observable as a return value in canActivate.
5. Create global loading block component. It’s purpose to prevent user from any actions. Should be overlay covers whole page with loader animation in the center.  
   This feature will consist of two items:  
   1. Loading-block component  
   2. Service that keeps actual condition of block (show: true/false)
6. Add using loading block for every api call (load courses, delete, login...)

Criteria for evaluation

1. Nothing changed
2. Implemented new search input behavior - not working
3. Implemented new search + all enhancements (3 chars, debounce)
4. Added user info Observable. All above with issues
5. Done all above including loading-block without major issues.

Extra task:

Proceed with unit testing. You have to change tests for search component. Write tests for header and new loading block.