

Exercise 32: Client Side MVC

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Objectives

Client side Single Page Applications ([SPAs](#)). Client side JS module systems and MVC frameworks.

Resources

Code samples from I32, see lectures.

[Pragmatic guide to Backbone](#)

[Backbone the Primer](#) (Good)

[Complete guide learning Backbone](#)

[Backbone fundamentals](#)

[Using templates in Backbone](#)

[What is a model?](#)

[Defining models](#)

In-house MVC design

Download [I32.zip](#)

1. Using hs, try to run /I32/in-house against some backend. Probably need to do some modifications of path's, ports etc..

Client side MVC Frameworks

Your choice

If you are very interested in some particular [framework](#) you may use it for the below tasks.
Else continue ...

Backbone Client Side Only

Continuing on the same task, we'll replace our in-house design with a client side MVC framework, [Backbone](#). Will look like;

Your TODO's (using local storage)

Add a note (+enter)

Click field to edit

1	<input type="text" value="Äta gröt"/>	false	<input type="button" value="Del"/>
2	<input type="text" value="Rensa sallad"/>	false	<input type="button" value="Del"/>
3	<input type="text" value="Jaga älg"/>	false	<input type="button" value="Del"/>
100	<input type="text" value="qqqqq"/>	false	<input type="button" value="Del"/>

For now we emulate the REST backend using the LocalStorage API. We use Mustache for templating.

1. Using hs, try run /l32/backbone_mvc
2. Download **backbone_todo_mustache.zip**
3. Unzip and inspect, try to run.
4. Check out //TODO comments, for what to do.
5. When working ... continue below

Backbone with RESTful Backend

Continuing on the above ...

1. Try to run /l32/backbone_ajax. Must have some backend running. Probably need to modify path's, ports, etc.
2. Rework the application so that we'll issue real AJAX requests to the REST backend. Comment out the previous code (don't delete).
3. Note that we'll have async code! Use callbacks to get result!
4. Parts to check
 - a. todoNote.js and todoList.js must be changed.
 - b. Delete method must know the URL!

Examination

Contact teaching assistant for a demo.