A **single-page application** (**SPA**) - is a web application or web site that fits on a single web page with the goal of providing a user experience similar to that of a desktop application ©.

- HTML, JavaScript, and CSS
- The page does not reload at any point in the process
- The control is never transferred to another page
- Dynamic communication with the web server behind the scenes.

JavaScript frameworks:

- AngularJS
- Ember.js
- Meteor.js
- React
- ...
- Custom

Server communication:

- Ajax
- JSONP
- Websockets
- Server-sent events (SSE)

Representation of state transition:

- Location hash
- HTML5 History API

Challenges:

- Search engine optimization
- Client/Server code partitioning
- Analytics
- Ad
- Speed of initial load
- Browser history
- ...