Architecture and API Design
Let's GO!

1. Architecture and API design

1.1. Backend:

1.1.1. Technology

REST API, JSON, SQLite

1.1.2. Database schema

1.1.3. Database to object mapper

1.1.4. REST API

	Method	**URI**	**JSON input (simplified)**	**JSON output (simplified)**	**Authentication required?**	**Authorization required?**
Users						
	POST	/users	{"name": "bertrand"}	{"name": "bertrand", "location": "/users/1"}	no	no
	GET	/users/:id			yes	yes
	PUT	/users/:id	{"name": "bertrand"}		yes	yes
	DELETE	/users/:id			yes	yes
Sessions						
	POST	/sessions	{"name": "bertrand", "pwd": "eiffel"}	{"key":"a1b23"}	no	no
	DELETE	/sessions			yes	yes

Projects						
	GET	/users/:id/projects			yes	yes
	POST	/users/:id/projects	{"name": "project1"}	{"name": "project1", "location": "/users/1/projects/1"}	yes	no
	GET	/users/:id/projects/:id			yes	yes
	PUT	/users/:id/projects/:id	{"name": "project1"}		yes	yes
	DELETE	/users/:id/projects/:id			yes	yes
	PUT	/users/:id/projects/:id/invite_devs	{"devs": ["a@b.c, d@e.f"]}		yes	yes
	PUT	/users/:id/projects/:id/remove_devs	{"devs": ["a@b.c, d@e.f"]}		yes	yes
Sprints						
	GET	/users/:id/projects/:id/sprints			yes	yes
	POST	/users/:id/projects/:id/sprints	{"name": "sprint1"}	{"name": "requirement1", "location": "/users/1/projects/1/sprints/1"}	yes	yes
	GET	/users/:id/projects/:id/sprints/:id			yes	yes
	PUT	/users/:id/projects/:id/sprints/:id	{"name": "sprint1"}		yes	yes
	DELETE	/users/:id/projects/:id/sprints/:id			yes	yes
Requirements						
	GET	/users/:id/projects/:id/sprints/:id/requirements			yes	yes

	POST	/users/:id/projects/:id/sprints/:id/requirements	{"name": "requirement1"}	{"name": "requirement1", "location": "/users/1/projects/1/sprints/1/requirements/1"}	yes	yes
	GET	/users/:id/projects/:id/sprints/:id/requirements/:id			yes	yes
	PUT	/users/:id/projects/:id/sprints/:id/requirements/:id	{"name": "requirement1"}		yes	yes
	DELETE	/users/:id/projects/:id/sprints/:id/requirements/:id			yes	yes
Tasks						
	GET	/users/:id/projects/:id/sprints/:id/requirements/:id/tasks			yes	yes
	POST	/users/:id/projects/:id/sprints/:id/requirements/:id/tasks	{"name": "task1"}	{"name": "task1", "location": "/users/1/projects/1/sprints/1/requirements/1/tasks/1"}	yes	yes
	GET	/users/:id/projects/:id/sprints/:id/requirements/:id/tasks/:id			yes	yes
	PUT	/users/:id/projects/:id/sprints/:id/requirements/:id/tasks/:id	{"name": "task1"}		yes	yes
	DELETE	/users/:id/projects/:id/sprints/:id/requirements/:id/tasks/:id			yes	yes
	PUT	/users/:id/projects/:id/sprints/:id/requirements/:id/tasks/:id/assign_devs	{"devs": ["a@b.c, d@e.f"]}		yes	yes

	PUT	/users/:id/projects/:id/sprints/:id/requirements/:id/tasks/:id/unassign_devs	{"devs": ["a@b.c, d@e.f"]}		yes	yes

1.2. Frontend

1.2.1. Technology

AngularJS, Bootsrap

1.2.2. Frontend routing [Controllers]

- session/ [LoginCtrl, LoginFacebookCtrl, LoginGoogleCtrl, ForgotPasswordCtrl]
- dashboard/ [DashboardCtrlView]
- projects/ [CreateProjectCtrl, EditProjectCtrl, ListProjectCtrlView, DeleteProjectCtrl, ShareProjectCtrl]
- projects/+projectid+/spring [CreateSprintCtrl, EditSprintCtrl, ListSpringCtrlView, DeleteSprintCtrlView]
- projects/+projectid+/backlog [BacklogCtrlView]
- projects/+projectid+/taskboard [CreateTaskboardCtrl,]
- projects/+projectid+/task [CreateTaskCtrl, EditTaskCtrl, ListTaskCtrlView, DeleteTaskCtrl]
- projects/+projectid+/userstories [UserCtrlView]

1.2.3. Page mockups

Zip file and http://labs.jorgeisaac.com/letsgo-frontend/ui