**Project Name:** FITU

**Related Tech:** Mongodb, Nodejs, Angularjs

**Architecture Overview:**



**Environment setup:**

1. Install [mongodb](http://www.mongodb.org/), [nodejs](http://nodejs.org/).
2. Exec ‘npm install –g bower’, ‘npm install –g grunt’.
3. Get code from [git@gitrepoyanche.cloudapp.net:opt/git/project.git](mailto:git@gitrepoyanche.cloudapp.net:opt/git/project.git)
4. At root folder: exec ‘npm install’, ‘bower install’ to resolve dependencies.
5. Go folder: fitu/documents, run commands under ‘db clean up.txt’ in mongo shell, to initialize local db.
6. At root folder: exec ‘grunt’, to build the project, one more folder: statics, should appear under the root folder.
7. At root folder: exec ‘grunt watchuser’ if you’re developing user client, ‘grunt watchvendor’ if you’re developing vendor client, ‘grunt watchadmin’ if you’re developing admin client.
8. Local dns, hosts file in Windows:

127.0.0.1 www.fitu.com

127.0.0.1 admin.fitu.com

127.0.0.1 api.fitu.com

127.0.0.1 vendor.fitu.com

1. Exec ‘mongod’ to start mongo
2. ‘cd fitu’, Exec ‘node start.js’ on fitu sub folder to start local debug

**Data Contract (http):**

**Request**

GET: read

POST: create

PUT: update

DELETE: delete

**Response**

200 🡪 success

400 🡪 argument issue

401 🡪 no authorization

405 🡪 functionality not allowed

409 🡪 conflict, email/nick name duplication

500 🡪 server side error

**Resource List**

1. **Activities**

**http://api.fitu.com/activities?id&siteId&siteIdleId&vendorId&page&pageSize**

**GET:**

**Available filters:** id siteId siteIdleId vendorId page pageSize

**Filter priority:** id > siteId > siteIdleId > vendorId, exclusive

**Auth:** no auth required

**Response:** application/json

id: 32 bits id,

site: {id:, name:, location: {address: string, geo: string}, picUrl: },

siteIdle: {id:, startsOn:, endsOn: js date string, slots: number },

creator: {id:, headUrl, personal: },

name: string,

startsOn: js date string,

endsOn: js date string,

createdOn: js date string,

createdBy: 32 bits id,

tags: [] array of string,

intro: string,

picUrl: image url,

capacity: number

**POST:**

**Available Context:** siteId(required) siteIdleId(optional, must belongs to the site indicated by siteId)

**Auth:** Login required

**Request Format:**

name,

startsOn:,

endsOn:,

tags:,

intro:,

picUrl:,

capacity:

**Response:**

Success: text/plain, headers: Location: http://api.fitu.com/activities?id=new created id

Failed: http code(400,401…) TODO: specify bad field.

**PUT:**

**Available Context:** id

**Auth:** need to be the activity creator

**Request Format:**

name,

tags:,

intro:,

picUrl:,

capacity:

**Response:**

Success: text/plain, nothing

Failed: http code(400,401…) TODO: specify bad field.

**DELETE:**

**Available Context:** id

**Auth:** need to be god

**Response:** text/plain, nothing

1. **Vendors**

**http://api.fitu.com/vendors?id&page&pageSize**

**GET:**

**Available filters:** id page pageSize

**Auth:** no auth required

**Response:** application/json

id: 32 bits id,

tags: [],

location: {address:, geo: },

intro: string,

logoUrl:,

owner: {id:, headUrl:, personal: },

admins: [ {id:, headUrl:, personal: } ],

**POST:**

**Available Context:**

**Auth:** God required

**Request Format:**

tags: [],

location: {address:, geo: },

intro: string,

logoUrl:,

ownerId:,

admins: [ array of 32 bit id ],

Success: text/plain, headers: Location: http://api.fitu.com/vendors?id=new created id

Failed: http code(400,401…) TODO: specify bad field.

**PUT:**

**Available Context:** id

**Auth:** owner or admin

**Request Format:**

tags: [],

location: {address:, geo: },

intro: string,

logoUrl:,

**Response:**

Success: text/plain, nothing

Failed: http code(400,401…) TODO: specify bad field.

**DELETE:**

**Available Context:** id

**Auth:** need to be god

**Response:** text/plain, nothing

1. **Sites**

**http://api.fitu.com/sites?id&vendorId&page&pageSize**

**GET:**

**Available Filter:** id vendorId page pageSize

**Filter priority:** id > vendorId, exclusive

**Auth:** no auth required

**Response:**

id:,

name:,

tags: [],

location:{ address:, geo:, },

intro:,

picUrl:,

vendor: {id:, name:, logoUrl: }

**POST:**

**Available Context:** vendorId (required)

**Auth:** Vendor admin/owner

**Request Format:**

name:,

tags: [],

location:{ address:, geo:, },

intro:,

picUrl:,

**Response:**

Success: text/plain, headers: Location: http://api.fitu.com/sites?id=new created id

Failed: http code(400,401…) TODO: specify bad field.

**PUT:**

**Available Context:** id

**Auth:** vendor owner or admin

**Request Format:**

name:,

tags: [],

location:{ address:, geo:, },

intro:,

picUrl:,

**Response:**

Success: text/plain, nothing

Failed: http code(400,401…) TODO: specify bad field.

**DELETE:**

**Available Context:** id

**Auth:** need to be god

**Response:** text/plain, nothing

1. **SiteIdles**

**http://api.fitu.com/siteIdles?id&vendorId&siteId&page&pageSize**

**GET:**

**Available Filter:** id siteId vendorId page pageSize

**Filter priority:** id > siteId > vendorId, exclusive

**Auth:** no auth required

**Response:**

id:,

slots: number,

price: number,

startsOn:,

endsOn:

site: {id:, name:, location: {address, geo: }, picUrl: },

createdOn:

**POST:**

**Available Context:** siteId

**Auth:** Vendor admin/owner required

**Request Format:**

slots: number,

price: number,

startsOn:,

endsOn:

**Response:**

Success: text/plain, headers: Location: http://api.fitu.com/siteIdles?id=new created id

Failed: http code(400,401…) TODO: specify bad field.

**PUT:**

**Available Context:** id

**Auth:** Vendor admin/owner required

**Request Format:**

slots: number,

price: number,

**Response:**

Success: text/plain, nothing

Failed: http code(400,401…) TODO: specify bad field.

**DELETE:**

**Available Context:** id

**Auth:** need to be god

**Response:** text/plain, nothing

1. **Members**

**http://api.fitu.com/members?id&userId&actId&page&pageSize**

**GET:**

**Available Filter:** id userId actId (at least one) page pageSize

**Filter priority:** id > userId, actId (same level)

**Auth:** actId: activity creator, userId: operator himself, id: member of organizer or member of operator self

**Response:**

id:,

user: {id:, personal: {nickName: string, phone: phone string, contact: email string, gender: ‘男’ or ‘女’ or ‘’ }, headUrl: image url },

activity: {id:, name:, startsOn:, endsOn:, picUrl: },

createdOn:,

statusId: 10 queued, 20 confirmed, 30 quit

**POST:**

**Available Context:** actId

**Auth:** login required

**Request Format:** nothing

**Response:**

Success: text/plain, headers: Location: http://api.fitu.com/members?id=new created id

Failed: http code(400,401…) TODO: specify bad field.

**PUT:**

**Available Context:** id

**Auth:** self, act organizer

**Request Format:**

statusId: user -> quit, act organizer -> confirmed, queued

**Response:**

Success: text/plain, nothing

Failed: http code(400,401…) TODO: specify bad field.

**DELET:**

**Available Context:** id

**Auth:** need to be god

**Response:** text/plain, nothing

1. **Users**

**http://api.fitu.com/users?id&page&pageSize**

**GET:**

**Available Filter:** id page pageSize

**Auth:** self(id), god(all)

**Response:**

id:,

personal: {nickName: string, phone: phone string, contact: email string, gender: ‘男’ or ‘女’ or ‘’ },

headUrl:,

email:,

**POST:**

**Auth:** no auth required

**Request Format:**

personal: {nickName: string, phone: phone string, contact: email string, gender: ‘男’ or ‘女’ or ‘’ },

headUrl:,

email:,

hash\_pwd:

**Response:**

Success: text/plain, headers: Location: http://api.fitu.com/users?id=new created id

Failed: http code(400,401…) TODO: specify bad field.

**PUT:**

**Available Context:** id

**Auth:** self

**Request Format:**

personal: {nickName: string, phone: phone string, contact: email string, gender: ‘男’ or ‘女’ or ‘’ },

headUrl:,

**Response:**

Success: text/plain, nothing

Failed: http code(400,401…) TODO: specify bad field.

**DELET:**

**Available Context:** id

**Auth:** need to be god

**Response:** text/plain, nothing

1. **UserContacts**

**http://api.fitu.com/usercontacts?query**

**GET:**

**Available Filter:** query (by nickName or contact email)

**Auth:** owner/admin of vendor

**Response:**

id:,

personal: {nickName: string, phone: phone string, contact: email string, gender: ‘男’ or ‘女’ or ‘’ },

headUrl:,

1. **UserCredentials**

**http://api.fitu.com/usercredentials?userId**

**PUT:**

**Available Context:** userId

**Auth:** self

**Request Format:**

email: (change user email to this)

hash\_pwd: (change user pwd to this)

confirm\_hash\_pwd: (current password)

**Response:**

Success: text/plain, nothing

Failed: http code(400,401…) TODO: specify bad field.

1. **Sessions**

**POST:**

**Auth:** no auth required

**Request Format:**

email:,

hash\_pwd:

**Response:**

Success: application/json

sessionId:

userId:

Failed: http code(400,401…) TODO: specify bad field.