**Model**

**Entity**

* **User**
  + - id
    - email
    - password
    - urls

*+ constructor // to create collection users if not exists*

*+ getters and setters*

*//+ addUrl(url) = push*

*//+ removeUrl(url) = splice*

* **Url**
  + - id
    - url
    - urlMinified

*+ getters and setters*

**Repository**

* UserRepository
  + *insertUser(email, password)*
* *findUserByEmail(email)*
* *findUserById(id)*
* UrlRepository
* *findAllUserUrls(user) = user.urls*
* *findUrlByUrl(url, user) // user or UserId?*
* *insertUrl(url, userId) // updateUser : addUrl(url)*
* *deleteUrl(url, userId)*

**View**

**Registration page: …/register Login page: …/connect**

!

email

\*\*\*\*\*

OK

Error message x

!

!

email

\*\*\*\*\*

OK

! Error message x

!

\*\*\*\*\*

**Home page: …/**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **url** | **url\_minified** |  |
| *for url in user.urls* |  |  |  |
| 1 | http://google.fr | …. | delete |
| 2 = *url.id* | *url.url* | *url.urlMinified* | */remove-url/id* |
| 3 |  |  |  |

url

OK

**You are registered as user.email**

/add-url

/get-urls

**Controller**

* UserController
  + *emailValidator() - TU*
  + *passwordValidator() - TU*
  + *passwordConfirm() - TU*
  + *passwordHash() -TU*
  + *saveUser(user) – TU //localStorage.setItem(‘user’, user) or app.locals.user=user*
  + *getUser() – TU // localStorage.getItem(‘user’)*
  + *registerAction(req, res) – TI // get for view …/register*
  + *signUpAction(req, res) – TI // post for action …/register*
  + *connectAction(req, res) – TI // get for view …/connect*
  + *loginAction(req, res) – TI // post for action …/connect*
  + *logoutAction(req, res) – TI*
  + *indexAction(req, res) – TI // get for home view …/*
* UrlController
  + *urlValidator(url) -TU*
  + *idValidator(id) -TU*
  + *minifyUrl(url) - TU*
  + *addAction(req, res) – TI // post …/add-url*
  + *removeAction(req, res) – TI // get …/remove-url/:id(\\d+)*
  + *getUrlsAction(req, res) – TI // get …/get-urls*

***Example:***

***urlRouter.post(‘/add-url’, urlController.addAction)***

*addAction() : getForm(), getUserInput(), urlValidator(url), minifyUrl(url), getUser(), insertUrl(url, userId)*

***addAction(req, res){***

*// getForm - TU*

***let post = req.body;***

*// getUserInput = post.url – TU*

***if ( urlValidator(post.url) ){*** *// TU*

***let url = new Url;***

*// setUrl - TU*

***url.setUlr(post.url);***

*// minifyUrl(url) - TU and setUrlMinified(url) - TU*

***url.setUrlMinified( this.minifyUrl(post.url) );*** *// ? this = userController*

*//getUser – TU getId - TU*

***let userId = app.locals.user.getId();***

*//insert into database*

***urlRepository.insertUrl(url, userId);***

***}***

***}***

***/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/***

***The same with JS***

*// getForm(); - TU*

***document.getElementById(‘add-url-form’).addEventListener(‘submit’, addUrl);***

***function addUrl(){*** *// TI*

*// getUserInput(); -TU*

***const url = document.getElementById(‘add-url-input’).value;***

***if ( urlValidator(url) ){*** *// TU*

*// getUser() - TU*

***const user = localStorage.getItem(‘user’);***  *// TU*

*//insert into database (syntax to verify) : insertUrl(url, userId):*

***db.users.update({id: ‘user.id’} ,***

***{$push: {urls: {url: url, urlMinified: minifyUrl(url) } } } );***

*}*

*}*

*/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/*

*For TF it would be good to verify if you logout and login whether the user and list of urls are changed*