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

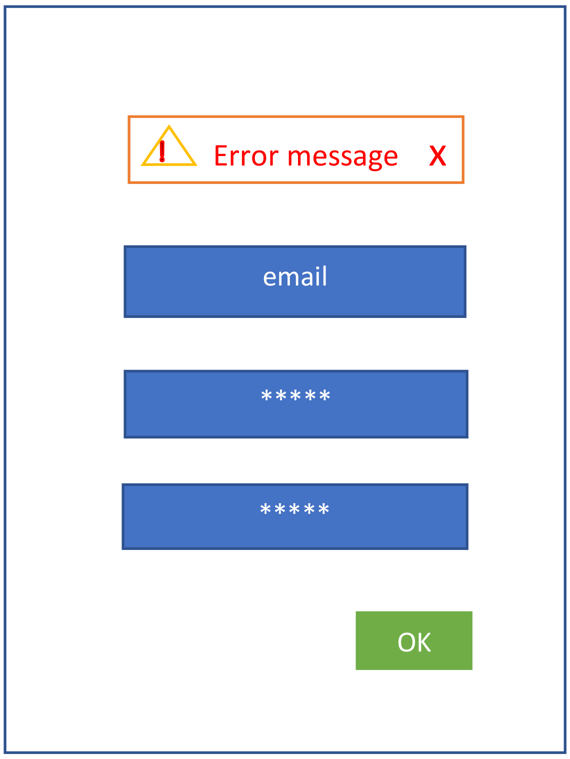
Repository

- UserRepository
  - *insertUser(email, password)*
  - *findUserByEmail(email)*
  - *findUserById(id)*

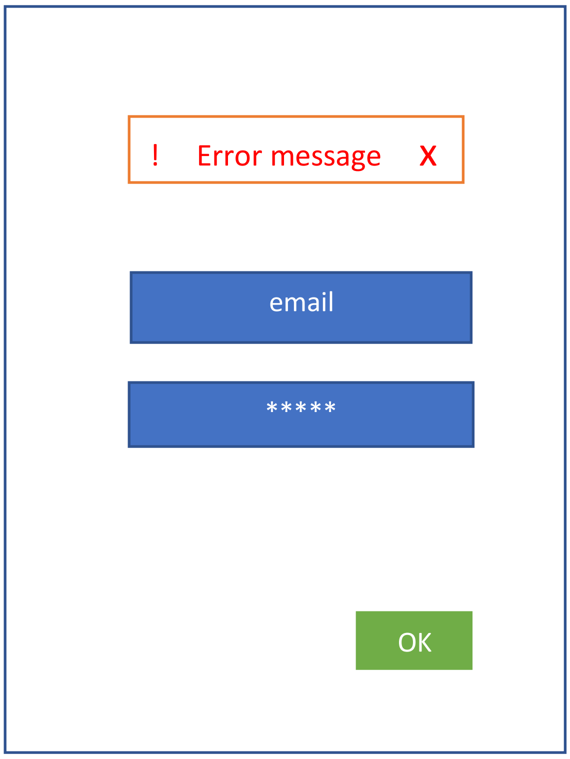
- UrlRepository
  - *findAllUserUrls(user) = user.urls*
  - *findUrlByUrl(url, user) // user or UserId?*
  - *insertUrl(url, userId)   // updateUser : addUrl(url)*
  - *deleteUrl(url, userId)*

View

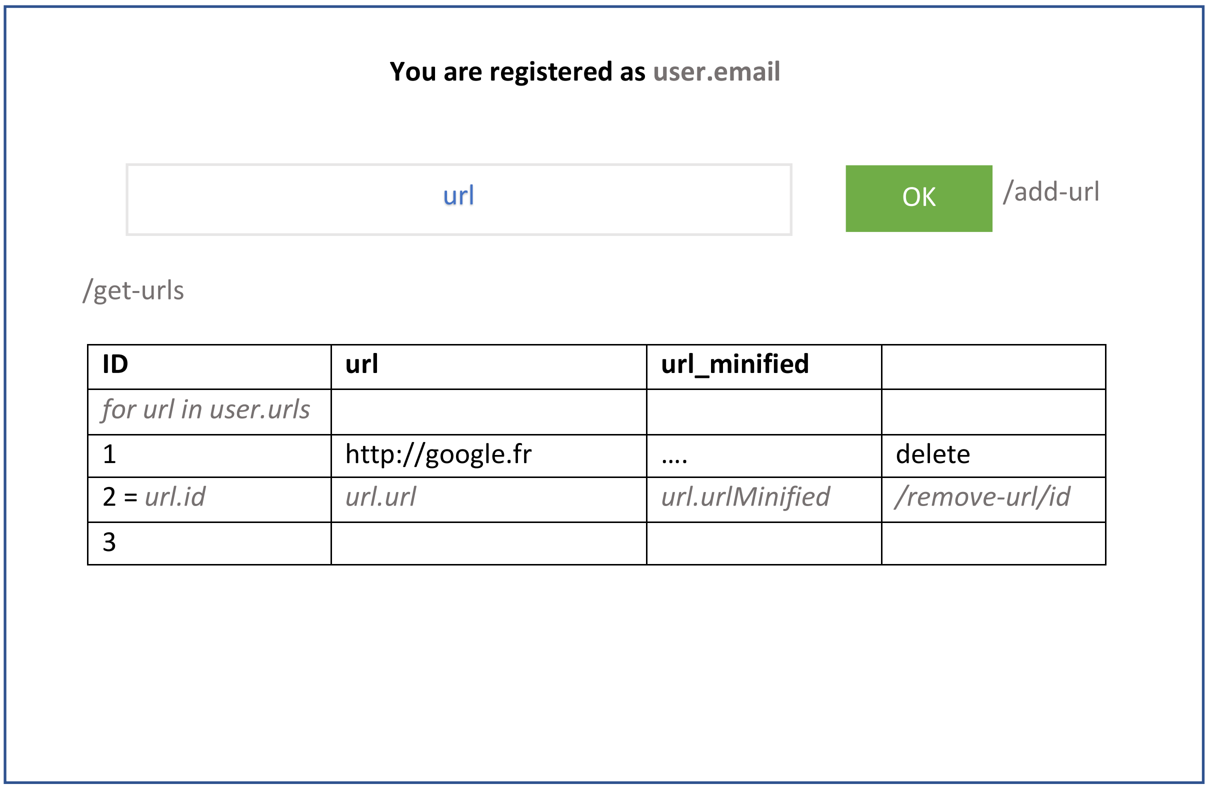
Registration page: …/register



Login page: …/connect



Home page: …/



You are registered as user.email

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			

Les routes

/connect (page d'accueil) !ATTENTION ajouter un bouton register

/register (Données envoyées dans POST)

/urls (POST) <- Ajout d'une URL

/urls (GET) <- Page affichant toutes les URLs d'un user

/urls (DELETE) <- Suppression d'une URL

/redirect-url

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