

Γέροντας Αλέξανδρος – 321/2015029

Κούκουρας Νικόλαος Παναγιώτης – 321/2014093

# ΣΧΕΔΙΑΣΜΟΣ ΚΑΙ ΑΝΑΠΤΥΞΗ ΕΦΑΡΜΟΓΩΝ ΚΙΝΗΤΟΥ ΥΠΟΛΟΓΙΣΜΟΥ

Ομαδική Εργασία – 2018/2019

Τα εργαλεία που χρησιμοποιήθηκαν είναι ο Tomcat για Servlet Container/Web Server, το MySQL για βάση δεδομένων και το Eclipse για IDE. Για γρηγορότερη εγκατάσταση σε Windows και Mac προτείνεται τα εργαλεία να εγκατασταθούν μέσω των Chocolatey και Homebrew αντίστοιχα.

Το back-end γράφτηκε σε Java, για το REST API χρησιμοποιήσαμε το Jersey και για ORM χρησιμοποιήσαμε το Hibernate. Για ευκολότερη εγκατάσταση δίνεται ολόκληρο το project του Eclipse, τα dependencies θα κατέβουν αυτόματα μέσω του Maven.

Το front-end γράφτηκε σε HTML/CSS/JS και το βασικό framework που χρησιμοποιήθηκε είναι το Bootstrap. Οι web τεχνολογίες είναι ότι κοντινότερο έχουμε σε κάτι πραγματικά Cross Platform και λόγω του Bootstrap ολόκληρο το project τρέχει εξίσου καλά σε όλες τις συσκευές.

Προτού φορτώσουμε το project στο Eclipse, το MySQL service πρέπει να τρέχει στο port 3306, πρέπει να έχει βάση δεδομένων με όνομα db (η εντολή είναι: create database db) και ο χρήστης root πρέπει να έχει κωδικό 1234.

Οι πίνακες μπορούν να δημιουργηθούν με τα παρακάτω queries:

```
create table vote
(
    id int primary key auto_increment,
    username varchar(50),
    report_id int,
    vote varchar(1)
);

create table report
(
    report_id int primary key auto_increment,
    username varchar(50),
    title varchar(50),
    text varchar(500),
    type varchar(50),
    lat double,
    lon double,
    upvotes int not null check (upvotes >= 0),
    downvotes int not null check (downvotes >= 0),
    time varchar(50),
    path varchar(50)
);

create table user
(
    user_id int primary key not null auto_increment,
    username varchar(50),
    password varchar(50),
    type varchar(50)
);
```

## Αποτελέσματα της αξιολόγησης:

Ο χρόνος που έκανε ο κάθε χρήστης να στείλει την αναφορά μειώθηκε λίγο, γιατί αν και κατάλαβε πως να χρησιμοποιήσει την πλατφόρμα ο χρόνος που γραφεί είναι ο ίδιος.

Αποτελέσματα του ερωτηματολογίου  
SUS για κάθε χρήστη:

Participant ID:     1     Site:                                  Date:     /    /    

### System Usability Scale

**Instructions:** For each of the following statements, mark one box that best describes your reactions to the website *today*.

		Strongly Disagree			Strongly Agree
1.	I think that I would like to use this website frequently.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.	I found this website unnecessarily complex.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	I thought this website was easy to use.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	I think that I would need assistance to be able to use this website.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	I found the various functions in this website were well integrated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.	I thought there was too much inconsistency in this website.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	I would imagine that most people would learn to use this website very quickly.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.	I found this website very cumbersome/awkward to use.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	I felt very confident using this website.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10.	I needed to learn a lot of things before I could get going with this website.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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