**Babeș-Bolyai University, Faculty of Mathematics and Computer Science**

# Software Engineering Laboratory Report - Duo

**Team Leaders: Rareș-Andrei Cotoi[1], Bogdan Borodi[2], Vodă Ioan[3] and Újfalusi Ábel[4]**

[1] *Project Manager - 2nd Year, Group 922/1*
[2] *Web technical lead - 2nd Year, Group 922/1*
[3] *Desktop technical lead - 2nd Year, Group 927/1*
[4] *Quality assurance lead - 2nd Year, Group 927/1*

## 1. Introduction

Our team was formed by merging teams 922/1 and 927/1 and hence the Team Leaders splitted as following: Rareș Cotoi (TL of 922/1) - *Project Manager*, Bogdan Borodi (Technical Lead of 922/1) - *Web technical lead*, Ioan Vodă (TL of 927/1) - *Desktop technical lead*, Újfalusi Ábel (Technical Lead of 927/1) - *Quality assurance lead*. As for the team members, the final team is being formed by the students: Bota Mihnea, Chiș Denis, Cotîrlă Darius, Radu Cioată, Andrei Cruceru, Teodora Buga, Cezar Chiticariu, Tudor Buha, Vlad Cenușe, Robert Bota, Suba Daniel, Serban Dragos, Sofariu Adrian, Terebent Roxana, Ungur Andreea, Tiut Cristian, Strugari Cristian, Artur Zsigmond, Toma Alexandru, Stefan Tanasa, Soptelea Sebastian and Szarics Iulia.

## 2. Task breakdown and distribution

The tasks to accomplish were broken down into smaller tasks and splitted among all the team members by Rareș Cotoi and Bogdan Borodi. All the tasks were created and monitored using GitHub issues and projects, having a board created and associated to our main repository.
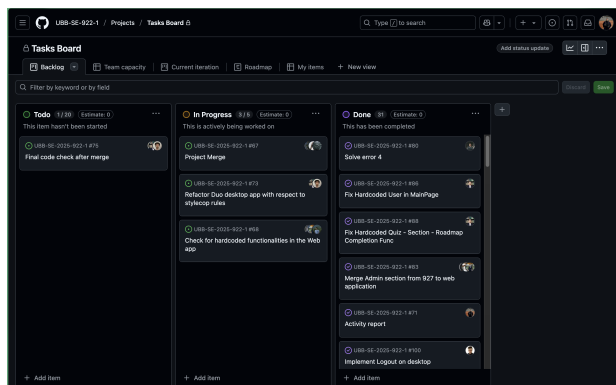


**Figure 1.** Sample from our tasks board

The tasks were splitted based on every feature that we implemented, as following:

### 2.1. Merging projects

#### 2.1.1. Desktop application

- All files merging: *Adrian Șofariu, Andreea Ungur, Artur Zsigmond, Cristian Strugari, Ștefan Tănasă, Alexandru Toma, Sebastian Șoptelea, Dragoș Șerban, Tiuț Cristian*;
- Change the hardcoded user in the Desktop application: *Dragoș Șerban*;
- Fix the hardcoded Quiz section: *Dragoș Șerban*;
- Update the user sessioning on the Desktop application and merge the login/logout functionalities: *Cristian Tiut, Sebastian Șoptelea, Strugari Cristian*;
- Desktop merging supervision and code review: *Ioan Vodă*.

#### 2.1.2. Web application

- All files merging: *Bogdan Borodi, Vlad Cenușe, Robert Bota, Mihnea Bota, Chiș Denis*;
- Fix Admin dashboard in the web application: *Vlad Cenușe*
- Fix hardcoded Quiz section: *Bogdan Borodi, Chiș Denis*;
- Add courses section: *Borodi Bogdan*;
- Merge Roadmap section: *Robert Bota, Vlad Cenușe*;
- Functionalities check: *Marian Chiticariu, Tudor Buha*;
- Web merging supervision and code review: *Bogdan Borodi, Rareș Cotoi*.

### 2.2. Database merge

The 2 local databases were merged into a single one, adapting the database diagram to match the columns in each common table. The overall database merge was done by *Vlad Cenușe*, *Robert Bota* and *Ioan Vodă*.

### 2.3. Application deployment

The application was deployed to the server by *Daniel Șuba* and *Újfalusi Ábel*.

### 2.4. Additional tasks

In addition to the previous tasks categories, some individual and necessary tasks were handled by the team members, such as:

- Errors on merge - after the merge, some shady errors appeared on the functionality side: handled by *Bogdan Borodi* (web), *Ioan Vodă Sebastian Șoptelea* (desktop);
- Checking for the coding convention: *Sebastian Șoptelea, Dragoș Șerban*;
- Global code review for readability and testability: *Újfalusi Ábel*;
- Check for unfinished/buggy functionalities: *Rareș Cotoi* and *Bogdan Borodi*;

### 2.5. Lines of code contributed by each member

For this Assignment, the total amount of contributed lines of code was **31350**. Please note that not all team members were assigned to contribute with lines of code.

**Table 1.** Lines of code contributed by each member

| Membru | Linii de cod |
| --- | ---: |
| Bogdan Borodi | 4 950 |
| Vlad Cenușe | 4 880 |
| Șoptelea Sebastian | 3 350 |
| Robert Bota | 3 220 |
| Șerban Dragoș | 2 450 |
| Sofariu Adrian | 2 320 |
| Vodă Ioan | 1 620 |
| Ujfalusi Ábel | 510 |
| Suba Daniel | 380 |
| Denis Chiș | 250 |
| Ungur Andreea | 930 |
| Țiuț Cristian | 1 820 |
| Strugari Cristian | 1 710 |
| Toma Alexandru | 900 |
| Terebent Roxana | 450 |
| Artur Zsigmond | 310 |
| Szarics Iulia | 380 |
| Tudor Buha | 240 |
| Marian Chiticariu | 60 |
| Ștefan Tănasă | 450 |
| Rareș Cotoi | 120 |
| Mihnea Bota | 50 |
| Radu Cioată | 0 |
| Cotîrlă Darius | 0 |
| Teodora Buga | 0 |
| Andrei Cruceru | 0 |

*Notă*: Valorile sunt estimate pe baza calificativelor oferite și nu provin dintr-o numărătoare reală a liniilor de cod.