

Software Engineering Laboratory Report - Team 922/1

Team Leaders: **Bogdan Borodi¹** and **Rareş-Andrei Cotoi¹**

¹2nd Year, Group 922/1

1. Introduction

Our team was formed by merging teams "Steampunks" and "Vlad şi ardelenii" and hence the Team Leaders splitted as following: Rareş Cotoi (TL of Steampunks) - *Team Lead* and Bogdan Borodi (TL of Vlad şi ardelenii) - *Technical Lead*. As for the team members, the final team is being formed by the students: Bota Mihnea, Chiş Denis, Cotîrlă Darius, Radu Cioată, Andrei Cruceru, Teodora Buga, Cezar Chiticariu, Tudor Buha, Vlad Cenuşe and Robert Bota.

2. Task breakdown and distribution

The tasks from Assignment 4 were broken down into smaller tasks and splitted among all the team members by Rareş 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.

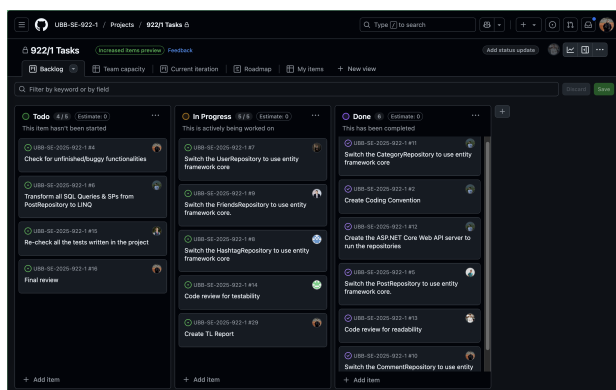


Figure 1. Sample from our tasks board

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

2.1. Merging projects

- Check and resolve mock functions and features in both applications to merge: *Vlad Cenuşe*;
- Resolve merge conflicts: *Bogdan Borodi*;
- Check for potential business logic in the UI or Data Access Layer: *Vlad Cenuşe, Tudor Buha*;
- Final code review for merging projects: *Bogdan Borodi, Rareş Cotoi*;

2.2. Switch the repository side to use entity framework core

For this task, the existing Repositories were handled individually as following:

- Category Repository: *Bogdan Borodi*;
- Comment Repository: *Rareş Cotoi*;
- Post Repository: *Vlad Cenuşe*;
- User Repository: *Tudor Buha*;
- Friends Repository: *Denis Chiş* and *Teodora Buga*;
- Hashtag Repository: *Robert Bota*;

For all repositories migration mentioned above, the code review was done by *Bogdan Borodi*.

2.3. Setup the ASP.NET Core Web API Server to run the Repository

For this part, initially, the server was configured by *Bogdan Borodi*. After the initial configuration, each Repository was modified to establish a direct connection to the Server, instead of connecting directly to the Database. Each repository was handled by:

- Category Repository: *Bogdan Borodi*;
- Comment Repository: *Rareş Cotoi*;
- Post Repository: *Vlad Cenuşe*;
- User Repository: *Tudor Buha*;
- Friends Repository: *Denis Chiş* and *Radu Cioată*;
- Hashtag Repository: *Robert Bota*;

For this part, the code review was done by *Bogdan Borodi*.

2.4. Additional tasks

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

- Failing tests fixing - some of the tests we had on the Repository side were failing due to the migration to the Server side: handled by *Bota Mihnea* and *Darius Cotîrlă*;
- Creating the coding convention: *Bogdan Borodi*;
- Global code review for readability: *Radu Cioată*;
- Global code review for testability: *Teodora Buga*;
- Check for unfinished/buggy functionalities: *Rareş Cotoi* and *Bogdan Borodi*;

3. Code contribution for each team member

Having this tasks breakdown, in the dedicated GitHub Repository were made **47** different commits, using **13** different branches:

- Branch **Bob/MergeProjects** - 3 commits, authored by *Bogdan Borodi*;

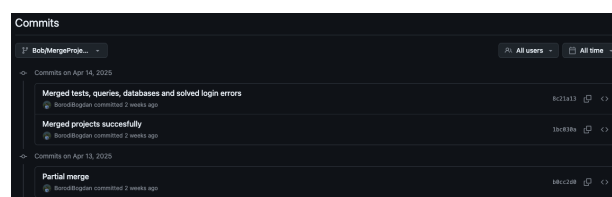


Figure 2. Branch "Bob/MergeProjects"

- Branch **Bob/MovingToServer** - 4 commits, authored by *Bogdan Borodi*;

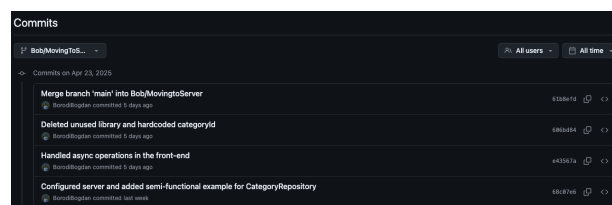


Figure 3. Branch "Bob/MovingToServer"

- Branch **Bob/RefactorProject** - 3 commits, authored by *Bogdan Borodi*;

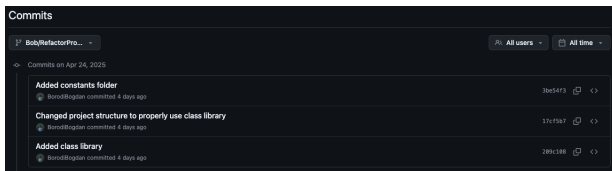


Figure 4. Branch "Bob/RefactorProject"

- Branch **Bob/StyleConventionDocument** - 1 commit, authored by *Bogdan Borodi*:

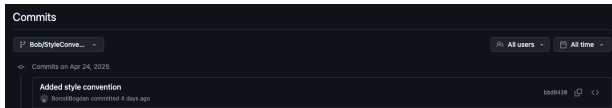


Figure 5. Branch "Bob/StyleConventionDocument"

- Branch **ChisuFriends** - 7 commits, authored by *Bogdan Borodi* and *Denis Chiș*:

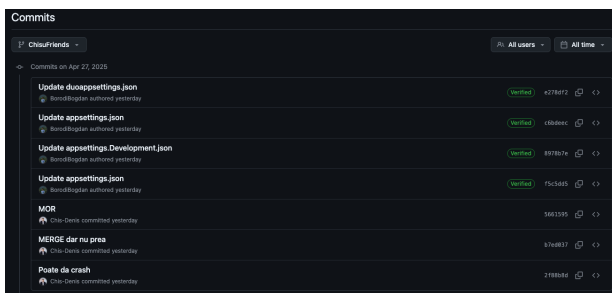


Figure 6. Branch "ChisuFriends"

- Branch **NoMoreFriends** - 2 commits, authored by *Denis Chiș*:

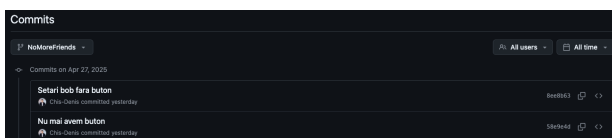


Figure 7. Branch "NoMoreFriends"

- Branch **RefactorUserRepo** - 3 commits, authored by *Tudor Buha*:

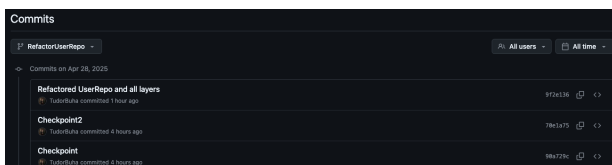


Figure 8. Branch "RefactorUserRepo"

- Branch **Robert/Hashtags2** - 5 commits, authored by *Robert Bota*:

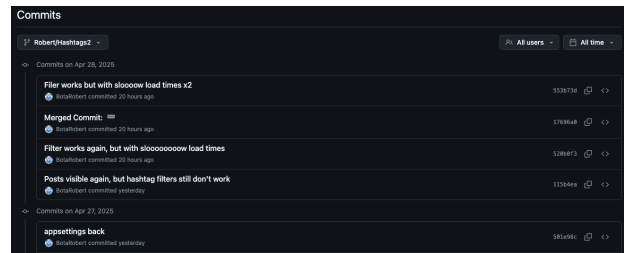


Figure 9. Branch "Robert/Hashtags2"

- Branch **Tudor** - 2 commits, authored by *Tudor Buha*:

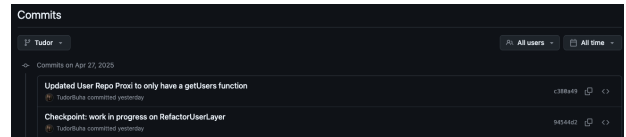


Figure 10. Branch "Tudor"

- Branch **Vlad3** - 4 commits, authored by *Vlad Cenușe*:

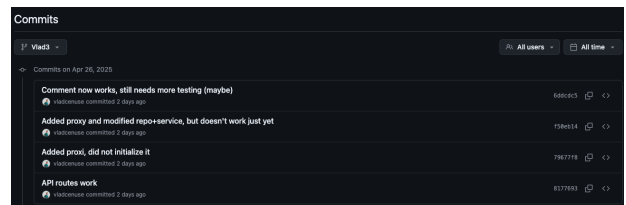


Figure 11. Branch "Vlad3"

- Branch **mihnea** - 5 commits, authored by *Bota Mihnea* and *Bogdan Borodi*:

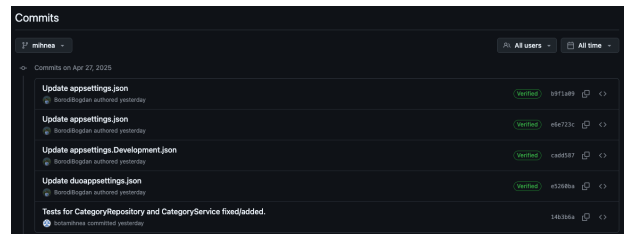


Figure 12. Branch "mihnea"

- Branch **coty** - 11 commits, authored by *Rareș Cotoi*, *Bota Robert* and *Bogdan Borodi*:

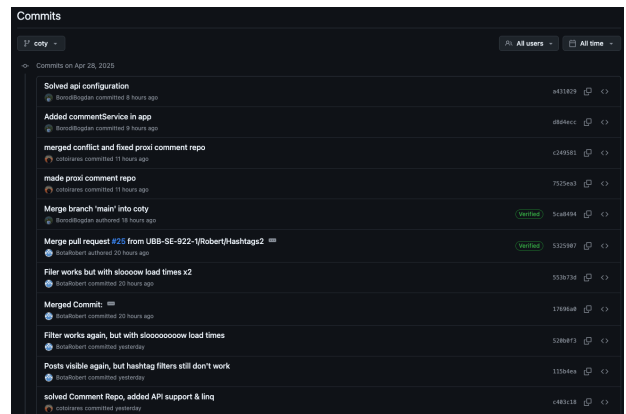


Figure 13. Branch "coty"

3.1. Lines of code contributed by each member

For this Assignment, the total amount of contributed lines of code was **2470**. Please note that not all team members were assigned to contribute with lines of code.

Table 1. Lines of code contributed by each member

Member	Lines contributed
Bogdan Borodi	714
Vlad Cenușe	472
Rareș Cotoi	291
Robert Bota	227
Tudor Buha	182
Marian Chiticariu	112
Mihnea Bota	112
Denis Chiș	109
Radu Cioată	90
Cotîrlă Darius	80
Teodora Buga	54
Andrei Cruceru	27

Note: The total amount of contributed lines were calculated by iterating through each commit mentioned above.