

SCREW YOUR NEIGHBOR

Report for Milestone 3 of Sopra FS22, Group 36



Figure 1: cover (source B. Furrer)

Members

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1. Introduction to the game

Our game can be played by two up to five people. The goal for every player is to gain as many points as possible during the game. Every player plays for himself, there are no teams. The game is played with a “Swiss Jass” card set of 36 cards with four suits.

The game is divided into 9 matches (Runden) with changing number of distributed cards per player (5,4,3,2,1,2,3,4,5), and for every match points are distributed.

For the first match, every player gets 5 cards. Then one player after the other must announce how many tricks (“Stich”, according to <https://en.wikipedia.org/wiki/Jass>) they will make in this match, starting from the player right from the current dealer. The last one announcing the number of his tricks for this match must announce several tricks such that the total sum of announced tricks is not equal to the number of cards distributed per player in this match.

When the trick announcing round is completed, the game starts. The player to the right of the current dealer starts. The suits don’t matter in this game, just the rank, and there is no trump. The player who played the highest rank in a match, i.e. wins the trick and has to deal the first card for the next trick. If there are 2 or more highest ranks in the trick, the next trick stacks on top of the current. In this case, the player who started the current trick has to start the next one too. If the last trick was stacked, the players who played the highest cards draw another card and continue the next trick with these. This may continue until there is only one highest rank in the trick.

When all the tricks in the match are played out, the players count the number of their tricks.

Points counting rules:

If a player announced the number of tricks correctly, then he gets the number of announced tricks squared as positive points. Otherwise, the player gets the difference as negative points.

Then the cards are distributed for the next match. The dealer duty moves one player to the right, the number of cards that is distributed follows the sequence [5,4,3,2,1,2,3,4,5].

For the match with only 1 card there is a special rule. The players don’t see their own card but put their card with the front revealed on their forehead, so only the other players can see the card, but not the player himself. After the 9 matches, the player with the highest score wins.

2. Game view

The order of the screenshots corresponds to the flow of the game, if possible. Matches 4, 3, 2 and the last match are not listed. The only difference to the five-card match is the number of cards. Depends on the result of the game, after the last match, only the winner can see a screw your neighbor cup, well-designed by Carmen.

X Technologies

X.x Spring Data REST

X.x Hibernate, JPA

X.x Jitsi API

X.x Mockito

X.x Git

X.x High-level components

UI

Database

Game Logic (side effects)

Game Validations

Security

3. Lessen learned

We have divided our learnings into two chapters, Challenges and Notes on Teamwork.

3.1 Challenges

- The most challenging part was learning in an appropriate time the technology stack.
- The challenge was to review the pull requests in a reasonable amount of time and then to implement the reviews. While this was a time-consuming process, it helps to understand the code and how the program works. Thus, with each pull request, several people knew how far the user stories were implemented.
- Another challenge was the feedback on the milestones. Some reviews were difficult to understand.

3.2 About teamwork

- What we enjoyed the most was playing the game in real life on a map and then later online every week, which has two huge advantages:
 1. It supported our team building process
 2. We test our game online every week
- Weekly meetings of the whole group at the Irchel have simplified communication. Meeting in person has the advantage that problems can be discussed bilaterally and the others can continue to work, but at the same time can listen with one ear.
- The use of Git and the clarification of how we work with this tool has made it much easier to edit the software efficiently, the main feature of Git we used was:
 1. Pull-request
 2. Feature-Branch
- As a small team building event, where of course the subject SoPra was extensively discussed, we met for the “Sechseläuten”. Coincidentally, there was a team member from the canton of Uri, which was also the guest



canton.

X. Roadmap

Top features to contribute - Sound effects when playing card, winning / losing trick, winning the game etc. -
Implement different manners of score point calculation - User profiles to store players playing statistics

4. Conclusion

We are extremely satisfied with our performance as a group. We had an ideal mixture of very experienced software developers and those who acquired broad knowledge during the semester. In particular, the people for whom this topic requires extensive experience in the field of programming. We all learned a lot about working together in a software team.