

Application Development for Mobile and Ubiquitous Computing

First Presentation

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**NOTHING TO DO IN
YOUR FREE TIME?**

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YOUR FREE TIME?**

**NOT ENOUGH COURSES
AT YOUR LOCAL UNIVERSITY?**

NOTHING TO DO IN
YOUR FREE TIME?

WE GOT YOU

NOT ENOUGH COURSES

COVERED!

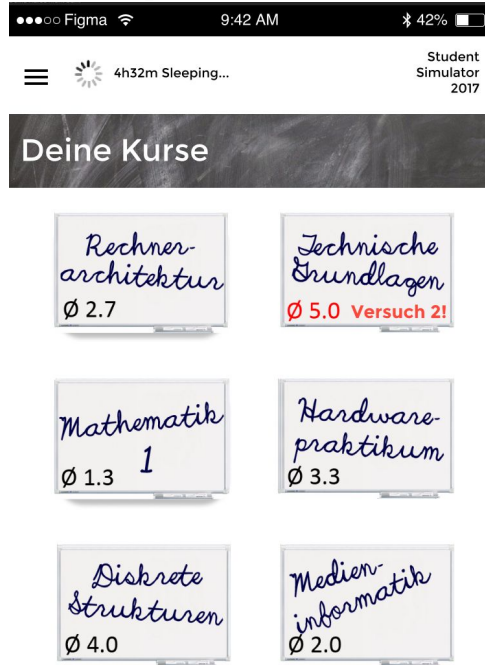
AT YOUR LOCAL UNIVERSITY?

Application scenario - Student Simulator 2017

- Your own virtual student
- Study in ways you never could before
- Manage your resources carefully
- Play the game the way you like it
 - Best marks
 - Most money
 - Fastest degree



Mockup – Lectures



- Prepare for exams
- Choose your focus
- Time limit
- Pass all exams to proceed
- Top bar
 - Your current activity
- Bottom bar
 - Your status

Wähle ein Fach aus um für dieses zu lernen.
Sobald du denkst, in einem Fach die Prüfung schreiben zu können, tippe im Untermenü des Fachs auf "Prüfung ablegen".
Bedenke, dass es bei deiner Endnote immer eine gewisse Varianz gibt! Je kurzfristiger du lernst, desto größer ist die Varianz!
Sobald du alle Prüfungen abgelegt hast, kannst du in das nächste Semester fortgeschritten. Denk aber immer daran, Lernerfolg zu feiern!

user_42  Gesundheit:
420,42€  Konzentration:

Mockup – Learning

- Choose how to learn for you exam
- Shorter = better



Future plans

- Studying with friends grants bonus

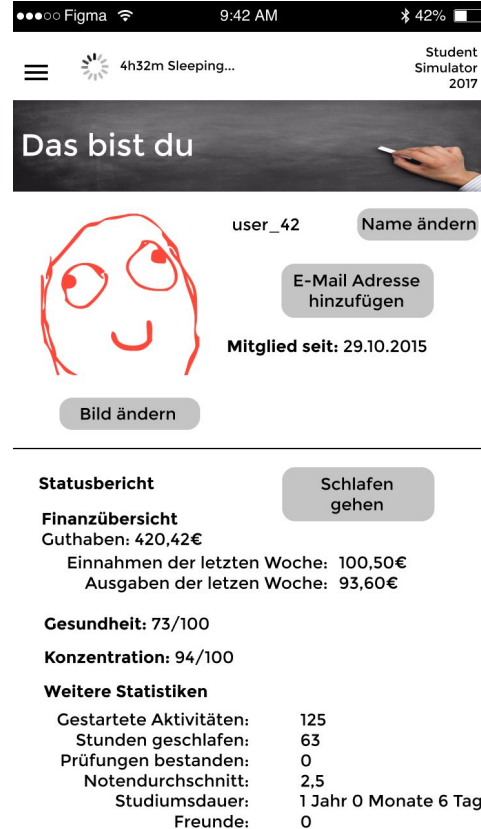
Mockup – Finances

- Manage your money
- Different approaches to get money
- Taking a risk might be worth it in desperate need



Mockup – Your Profile



- Detailed status
- All informations and statistics about you
- Go to sleep



- Change your profile
- Complete registration

Mockup – Scoreboards

1. User	Notenschnitt
2. user_1	Ø 1.00
3. Gandalf	Ø 1.02
4. Hairy Potter	Ø 1.03
5. Barney	Ø 1.12
6. Petter Griffin	Ø 1.12
7. Francis Underwood	Ø 1.13
8. user_42	Ø 1.15
9. babyBigfoot	Ø 1.21
10. A_non_charged_battery	Ø 1.25
11. Your worst nightmar	Ø 1.29
12. Grandma	Ø 1.29
13. Mr. Spoon	Ø 1.30
14. BigfootHunter	Ø 1.35
15. Angelo Maerte	Ø 1.38
16. dr_Höldöblér	Ø 1.39
17. mamaBigfoot	Ø 1.41
18. 1337_gamer	Ø 1.45
19. hardcorepunk13	Ø 1.46
20. sweet_pepper123	Ø 1.48
21. Dr. Cox	Ø 1.49
22. Rick Grimes	Ø 1.52
23. testnick44	Ø 1.56
24. kappa	Ø 1.60
25. ScaryNightwolf	Ø 1.61
26. HomerSimpson	Ø 1.61
27. uncleBigfoot	Ø 1.62
28. MrBurns	Ø 1.65
29. Bender	Ø 1.66

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- Many ways to compare yourself to others
- Encourage playing in different styles
- Adding new scoreboards to highlight new game features

Future plans

Items

- Faster learning
- More money
- Better marks

Friends

- Bonus while playing with friends
- Special leaderboards

Many more...

- Refine and balance existing features
 - More courses of studies
- Eating
- Partying
- ...

Challenges

- Offline challenge
 - Evolve your student offline
 - Sync data with server if possible



Challenges

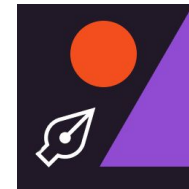
- Usability challenge
 - Proper format on iPhone and iPad
 - Usable on all iPhone devices



Technologies

- Github for version control
- Figma for mockups
- Xcode IDE
- Swift
- Webserver with a relational DB

GitHub



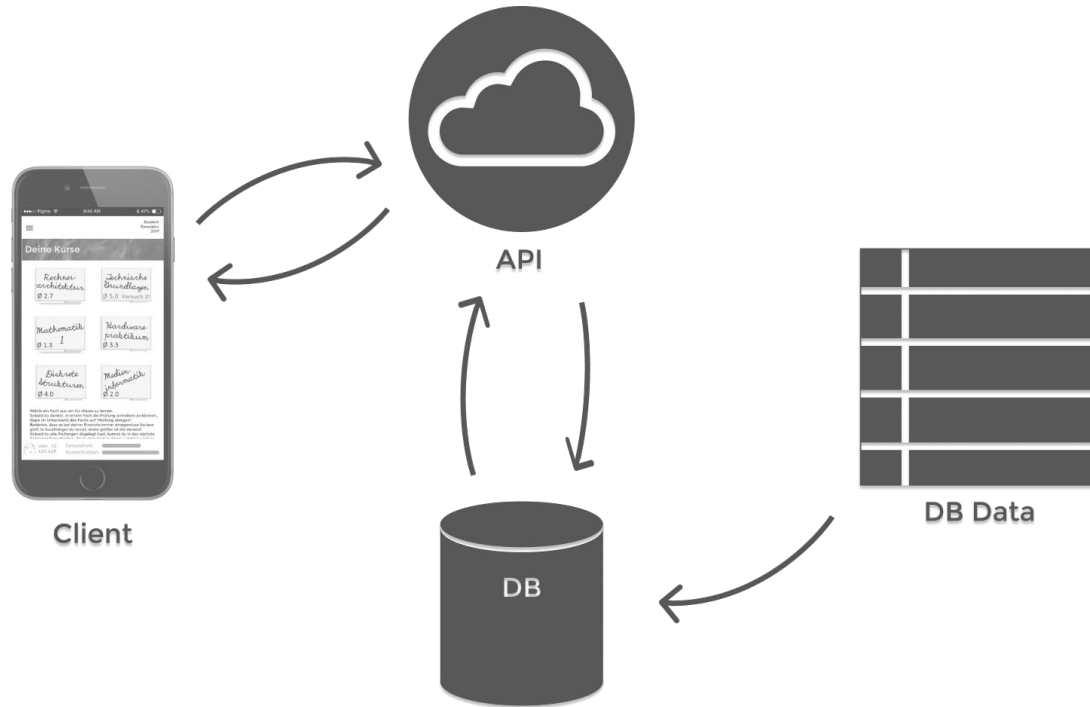
Figma



Xcode



Architecture



Work Plan

- November
 - GUI prototype
 - Frontend implementation
 - Construct server and database
- December
 - Backend implementation
 - Connect client and server
- January
 - Testing and bug fixes
 - Optimization

