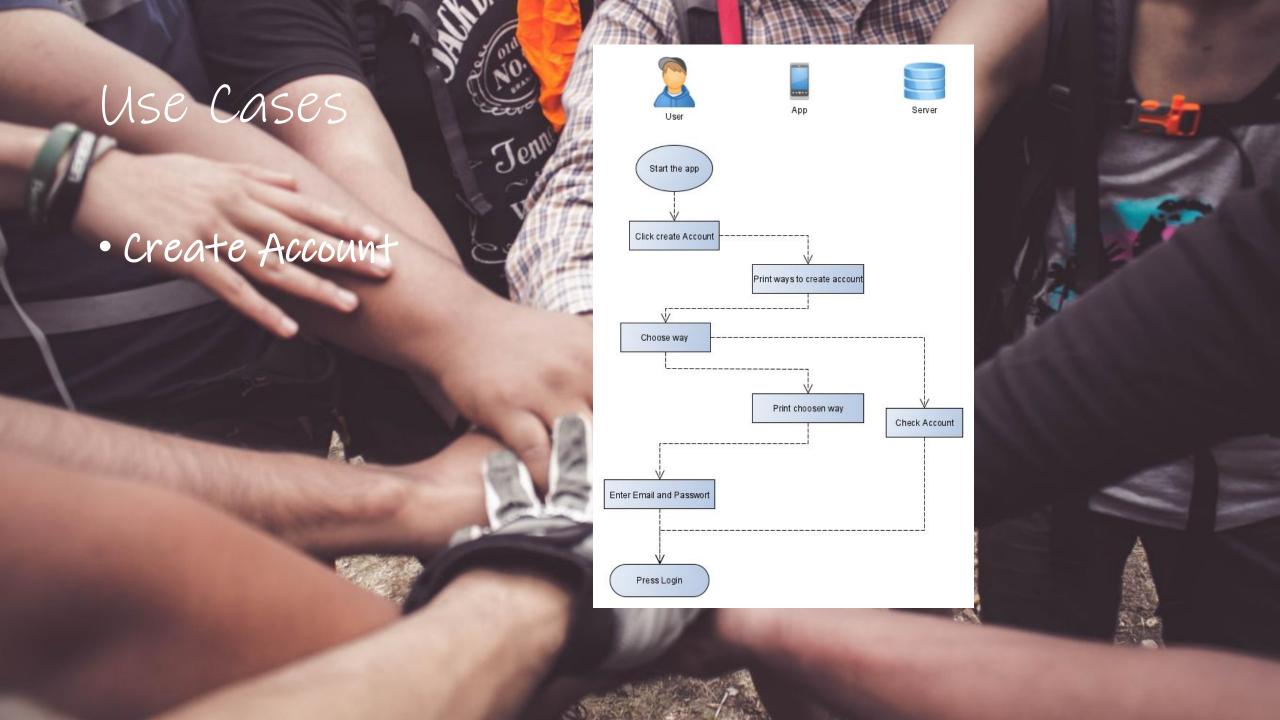


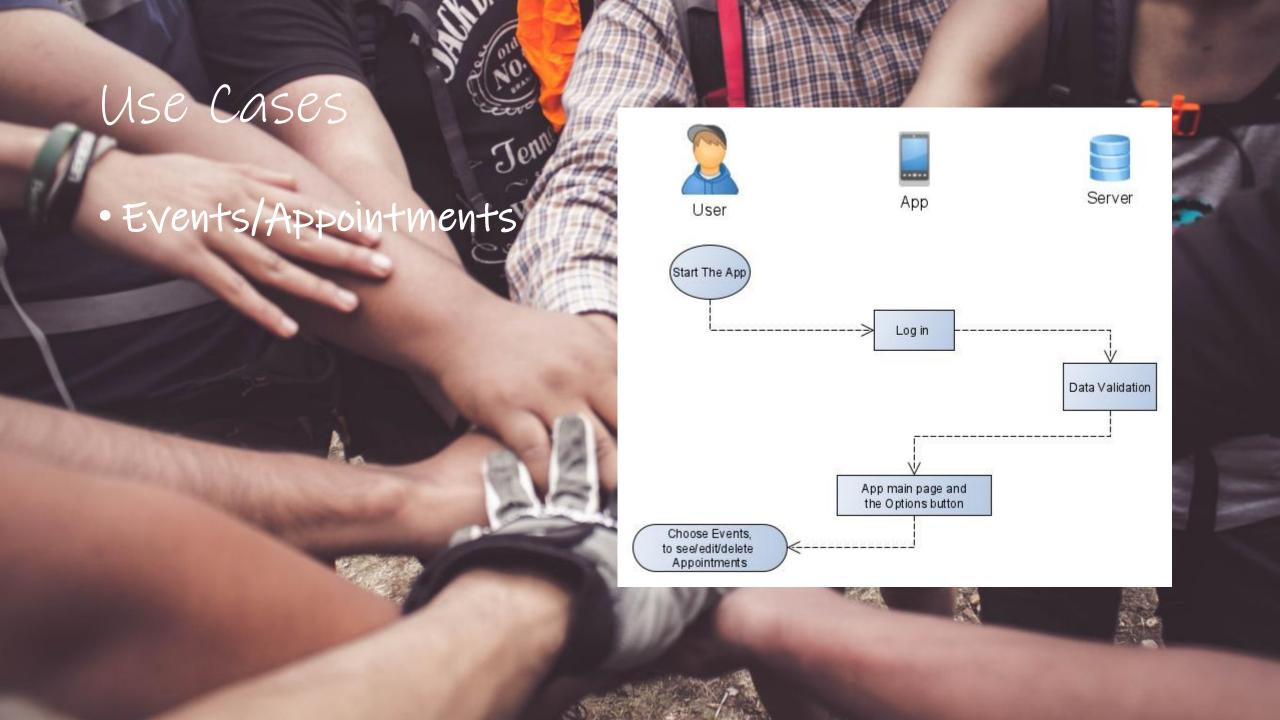


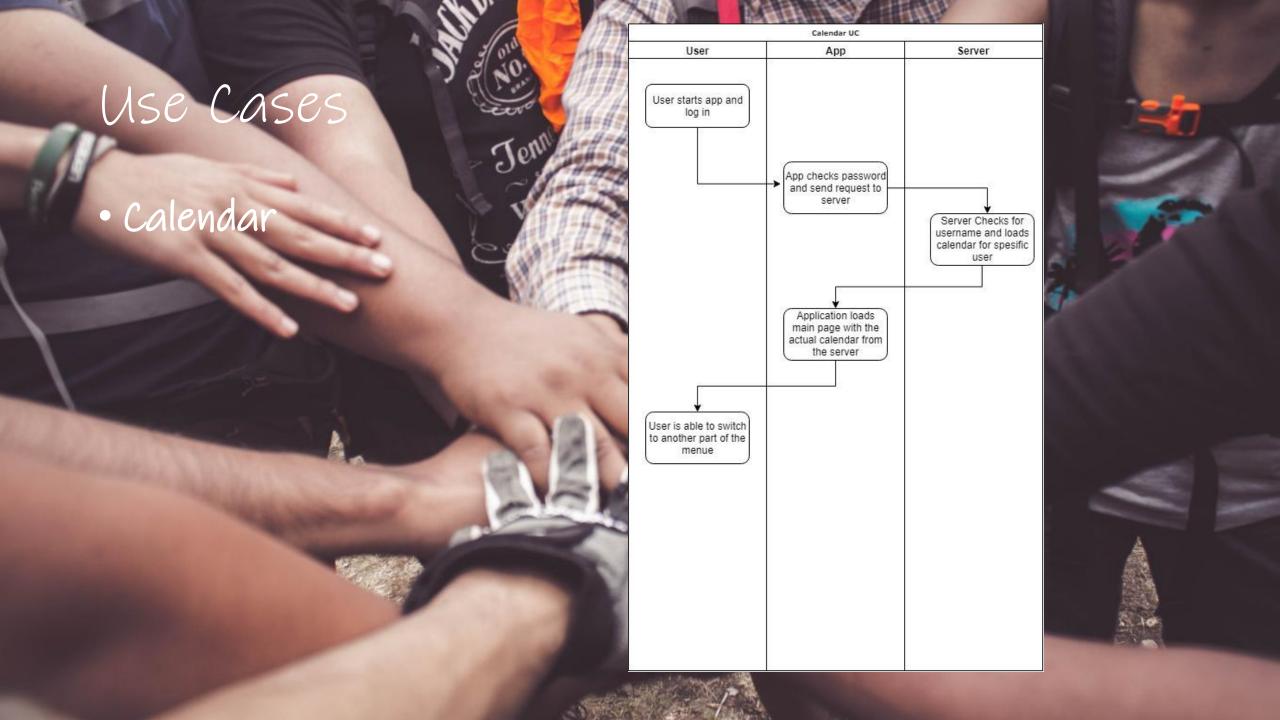


- · Vernetzung steigern
- · Freizeit besser planbar machen
- · Mehr zeit für freunde
- · Mehr Spaß
- Einfach
- · Meet new friends





















YouTrack

• Flexibel

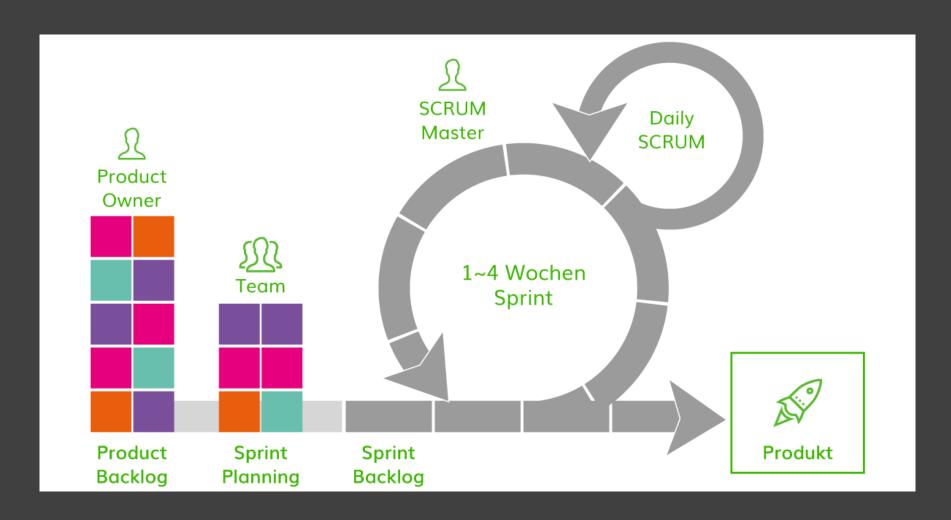
· Iterativer Prozess

· Monitoring



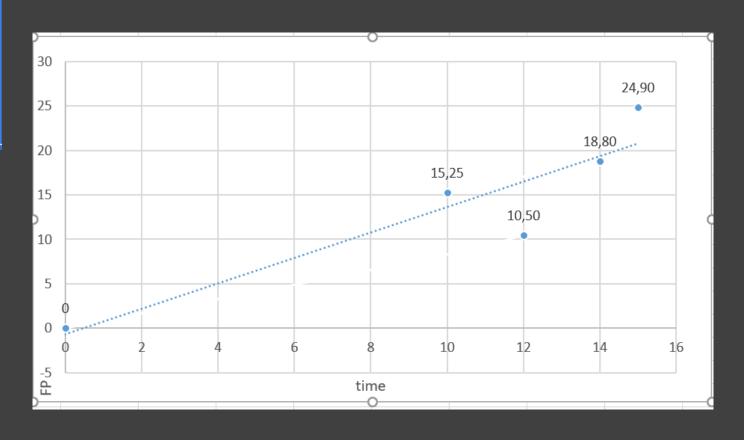
(https://dhbw-karlsruhe.myjetbrains.com/youtrack/dashboard?id=95e71f97-3a1a-4120-916d-a2036778a351)

YouTrack



Cost Estimation

UC	time	FP
start	0	0
create accounts	12	10,50
add/delete Friend	10	15,25
events/appointments	14	18,80
calendar	15	24,90



Cost real time

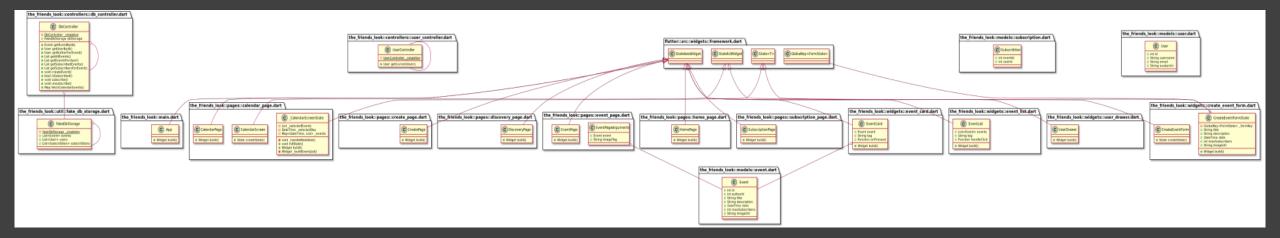
• server problem

· Kein Server -> Keine Nutzer

· Keine Zeit für Implementierung

Demo

Class Diagram



Class Diagram

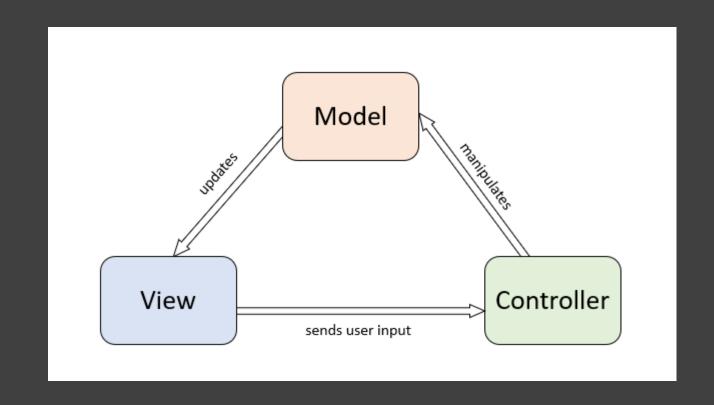
• https://www.youtube.com/watch?v=FgTSfL13MUA&feature=youtube

Architecture

· Application

• Flutter

· MVC Modell



Technik

- · Visual Studio code
 - · Entwicklung
- · Git
 - Versionierung
 - · Code Zusammenführung

Technik

- · Dart Analyzer
 - · Code Analyse
 - Metrics
- Flutter Plugins
- · DCDG
 - Klassendiagramme

Automation

· Unit Testing

· Git

Klassendiagramme erzeugen

SonarQube

Risk

fx	ID								
	А	В	С	D	E	F	G	Н	
1	ID	Risk name	Risk description	Risk Probability of Occurrence	Impact	Factor	Migration	Person in charge	
2	1	Lack of time	not achieving our goals or projekt	50%	10	6	Planning and time management	All	
3	2	COVID-19	Internet and server problems, limited contact	40%	9	1,8	have patience, we can do nothing	All	
4	3	Human resources	lack of experience or effort	30%	7	2,5	work together to complete all tasks	Marvin	
5	4	Dataloss	Git is down or we lose the backups (backup's failure)	20%	6	1	always make sure that the backups works	Mo	
6	5	Complexity	our goals are too hard to achieve	15%	7	0,75	Prioritize all functions and work together to find a	Mo	
7	6	Tools	licence or failure, and lack of support	5%	5	0,25	look at documentations and infos before using a new tool	Jan	
8									

testing

· Unit Testing

```
import 'package:flutter_test/flutter_test.dart';
import 'package:the_friends_look/controllers/db_controller.dart';

void main() {
   test('Fetch demo user', () {
    var provider = DbController();

   var username = provider.getUserById(0).username;
   var email = provider.getUserById(0).email;

expect(username, 'peter');
   expect(email, 'peter@gmail.com');
};

};

}
```

```
import 'package:flutter_test/flutter_test.dart';
     import 'package:the_friends_look/controllers/db_controller.dart';
     void main() {
       test('Fetch data from database', () {
         var provider = DbController();
         var data = provider.getAllEvents();
 8
         expect(data.length, 4);
 9
10
       });
11
       test('Demo event is present', () {
12
         var provider = DbController();
13
         var data = provider.getAllEvents();
14
15
16
         expect(data[0].title, "Grillen im Garten");
17
       });
18 }
```

Patterns

- Sofa Prinzip
- · Kürzere Methoden
- · Weniger Argumente
- · Weniger Abstraktion
- · Code smells beseitigt
- Bessere struktur



Metrics

- · Improve Code Quality
- · Dart Analyzer
- · Refactore Code

```
No dart files found at: C:\Users\Asus\TheFriendsLook\TheFriendsLook\metrics
PS C:\Users\Asus\TheFriendsLook\TheFriendsLook\ dartanalyzer lib
Analyzing lib...
error - This requires the 'control-flow-collections' experiment to be enabled. - lib\controllers\db_controller.dart:96:9 -
hint - Set literals weren't supported until version 2.2, but this code is required to be able to run on earlier versions.
hint - Unused import: '../models/event.dart'. - lib\pages\calendar_page.dart:6:8 - unused_import
hint - Unused import: '../widgets/event_list.dart'. - lib\pages\calendar_page.dart:7:8 - unused_import
1 error and 3 hints found.
PS C:\Users\Asus\TheFriendsLook\TheFriendsLook> dartanalyzer test
Analyzing test...
No issues found!
PS C:\Users\Asus\TheFriendsLook\TheFriendsLook>

Ln 26 Col 21 Spaces: 2 UTF-8
```

Danke