Deminder

An app that reminds you of your deadlines

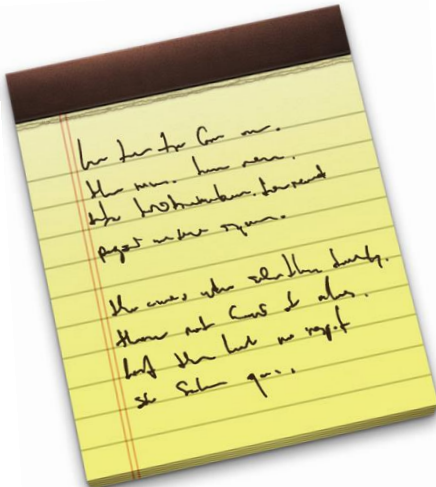Thomas Malina – Tillmann Nünninghof – Natalie Busam – Lea Wegner

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Understand business need

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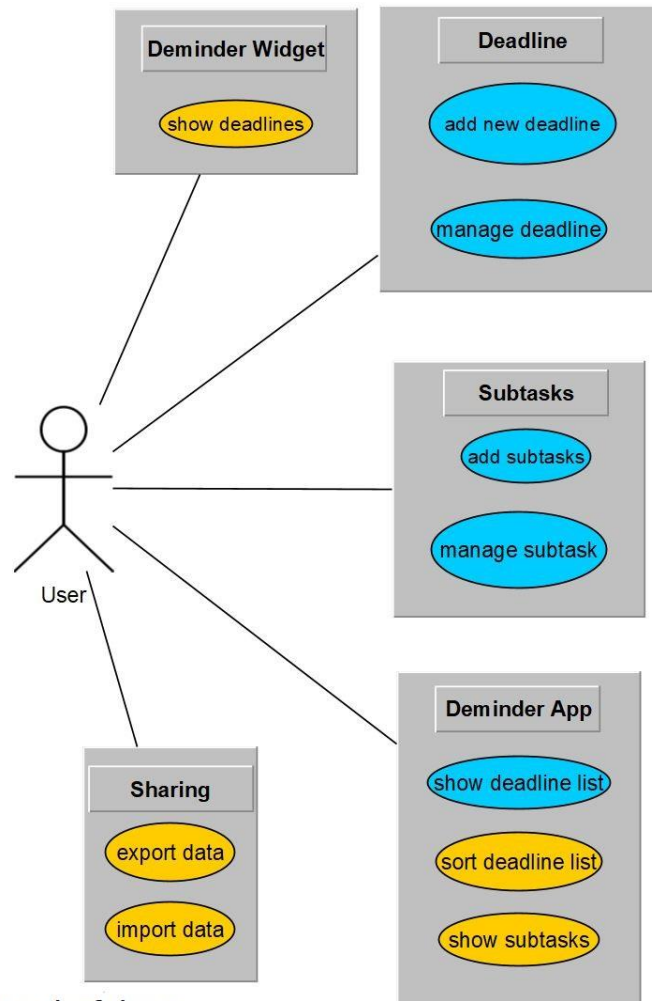
Vision

➢ Many deadlines to keep track off
➢ Exams, dates, papers you need to finish and e-mails you have to write
➢ Focus on important things

➢ Show an overview of your deadlines
➢ The ability to create, manage and delete deadlines and subtasks
➢ Subtask with check option

➢ Possibility to set deadlines as recurring
➢ Don't forget any important upcoming dates
➢ Organize and track your progress

Use cases

Deminder Widget
- show deadlines

Deadline
- add new deadline
- manage deadline

Subtasks
- add subtasks
- manage subtask

Deminder App
- show deadline list
- sort deadline list
- show subtasks

Sharing
- export data
- import data

User

☐ will be implemented till end of June

Software Requirements Specification

Scope:

- remind the user of upcoming deadlines such as exams
- overview to show all your deadlines

Functionality:

- Create, edit, show, delete deadline
- Add, show and delete subtasks, mark subtasks as finished

Non-functionals

Reliability

▶ Data is never lost or corrupted, acurate time, app always active

Performance
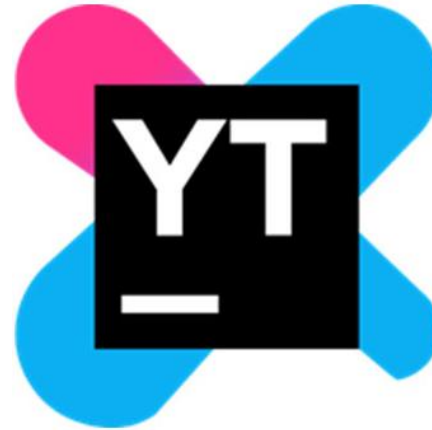
▶ Fast loading, asynchronus saving, low response time

Supportability

▶ Conventions, clear programm structure supporting modularity, clean code and commits

Design constraints

▶ Java, Android Studio, Git, YouTrack, Wordpress

Project Methodology

Tool

▶ YouTrack

PM method

▶ Scrum

What is Scrum?

▶ breaks large processes down into small pieces in order to streamline efficiency

▶ Time-tracking

Advantages

▶ Very agile

Iterative Process

▶ Small Scrum tasks to complete a objective set for our sprint

▶ Each task is complete on its own and contributes towards the sprint goal

Project Management

- access our task list in our IDE, Android Studio

- track the time one of our team members is working on a specific task

- Contributing to our git repository via Android Studio directly

RUP and long-term planning

- Usage of RUP for clear roles of each member and structure

- Burndown to keep track of our progress

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Cumulative Chart
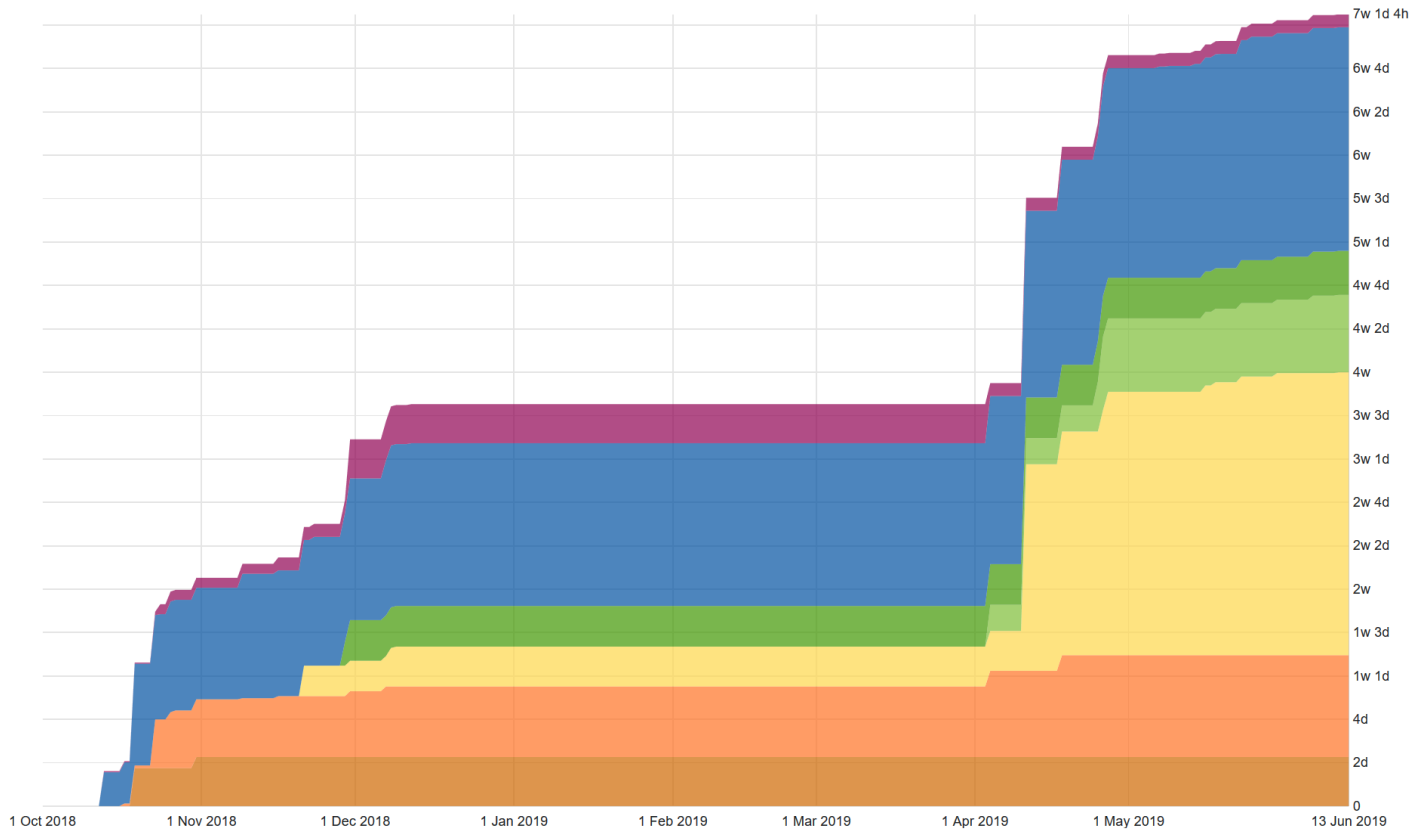
Cost Estimation

Use Case	FP's	Estimated Time	Time spent
Import Data	11,76	50	1d 6h
Export Data	11,76	50	6h
Sort deadline list	10,9	45	1d 3h
Show subtasks	5,88	20	1d 8h

Technical ability

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Class diagram

Quality

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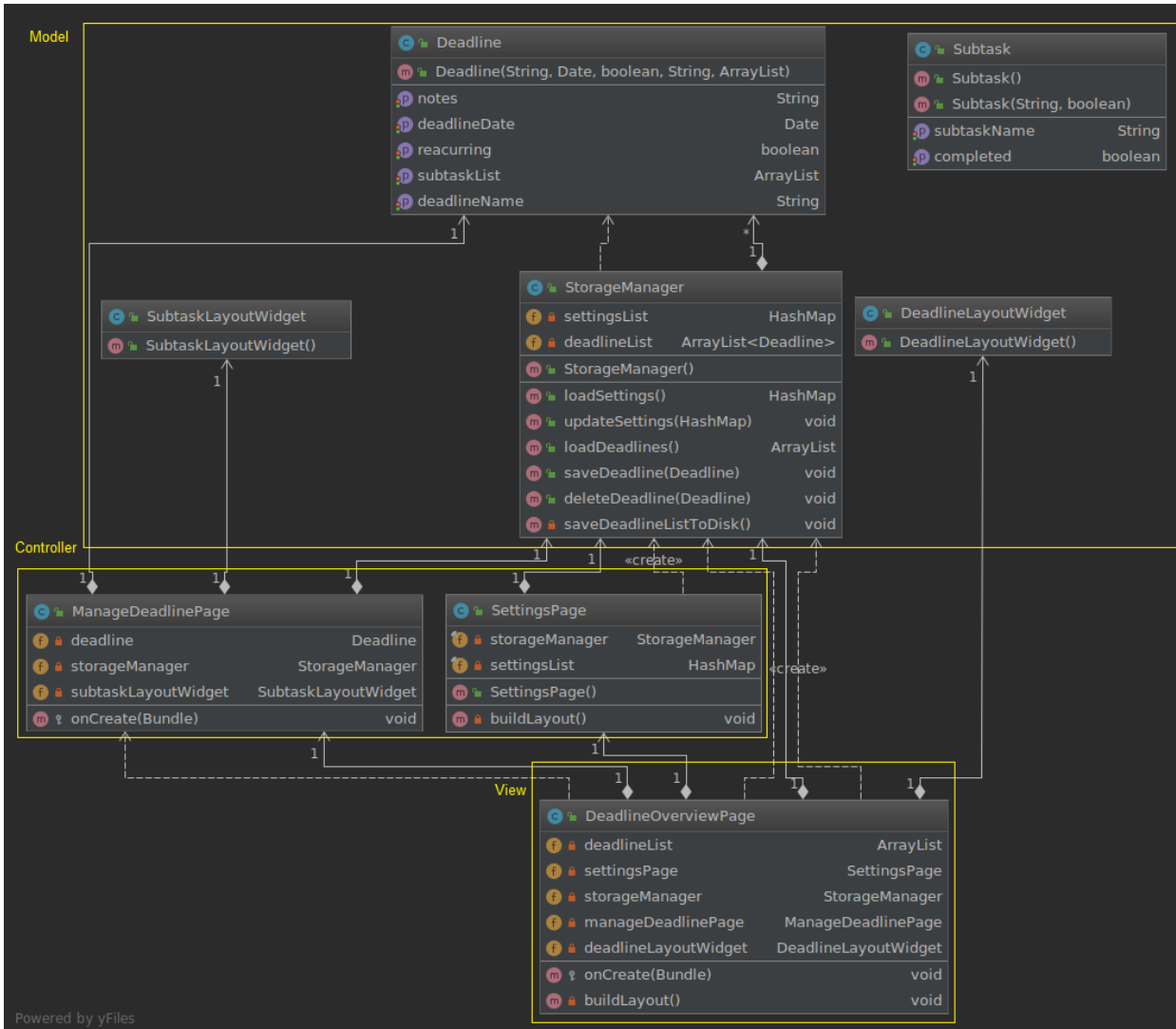
Architecture

▶ No server, only a client side which uses MVC

▶ Written in Java for android

Model View Controller

▶ Goal: seperate view from logic

▶ Controller takes care of handling actions by the user

▶ Models contain the data that is displayed in the views

Data Storage

▶ Deadlines stored on the phone drive
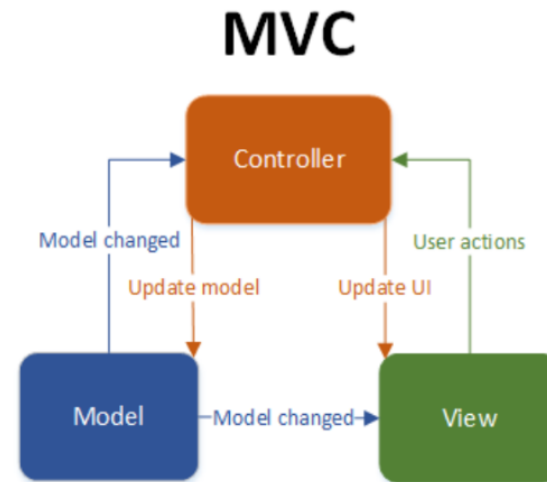
Automation

- ▶ Automatic time tracking
- ▶ Automatic tests
- ▶ Automatic deployment

Continuous Integration

▶ Travis CI as automated build service

▶ Every commit to the master branch triggers a build

▶ Travis CI runs all tests and statistics

▶ If build fails, commiter gets

Badges:

Deminder `build passing` `coverage 28%`

An android app and widget to remind one about deadlines.

Risk Management

Name	Occurence	Impact	Factor
The speciality of the app is not clear	80%	8	6,4
Inadequate estimation of required resources	50%	7	3,5
High level of technical complexity	60%	5	3
Ineffective communications	50%	6	3

Risk Management

Name	Occurence	Impact	Factor
Unknown technologies are difficult to handle	90%	3	2,7
User does not understand the usage of the app	20%	8	1,6
Loss of team members	10%	10	1
Changing requirements	10%	8	0,8

Testing

- ▶ Feature test with Espresso Framework
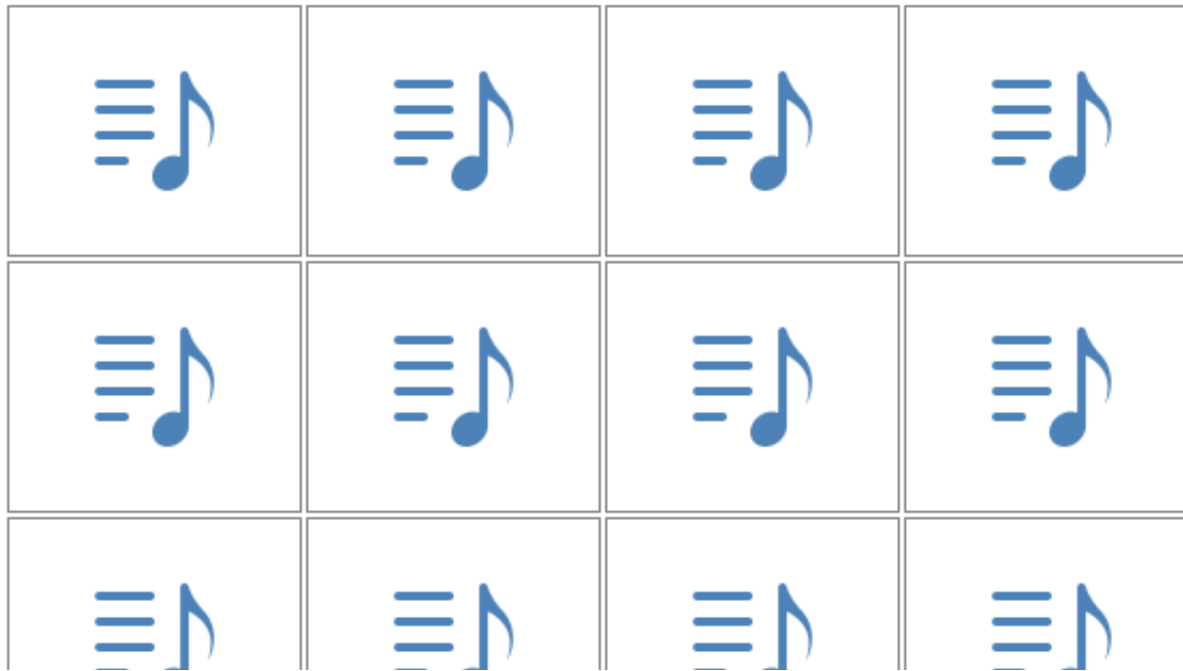
Patterns
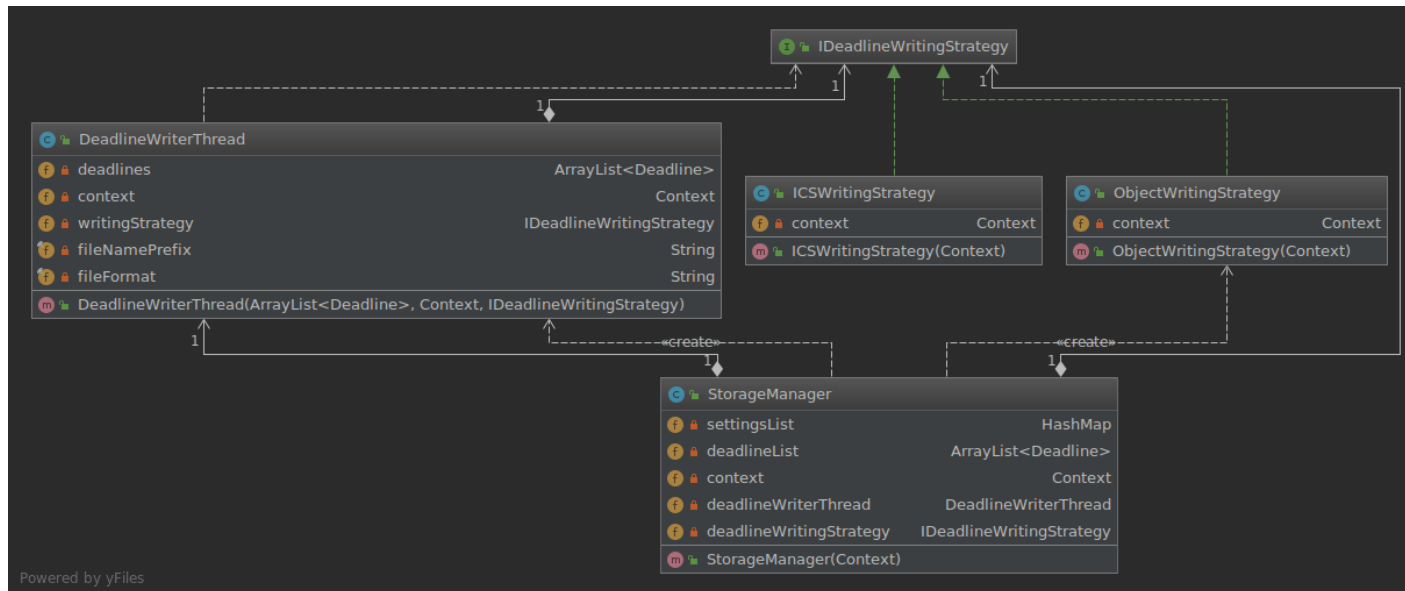
Metrics
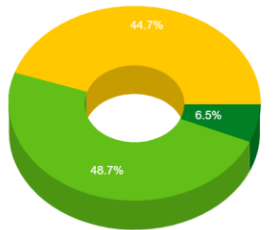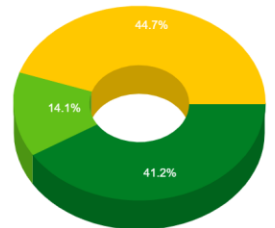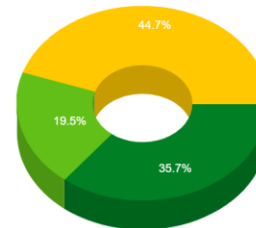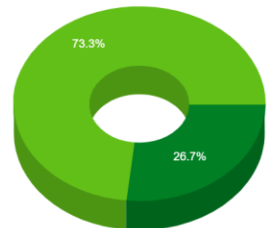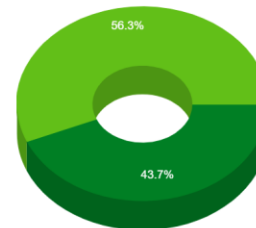
▶ Complexity

▶ Coupling

Metrics
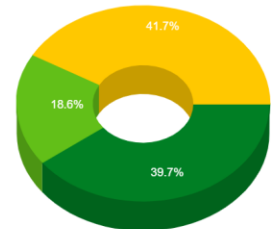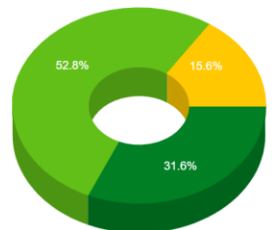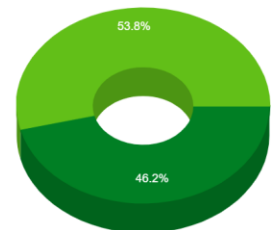
Thank you for your attention!

Thomas Malina – Tillmann Nünninghof – Natalie Busam – Lea Wegner