

Deminder

An app that reminds you of your deadlines

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- Understand business need
- ► Technical Ability
- Quality



Understand business need

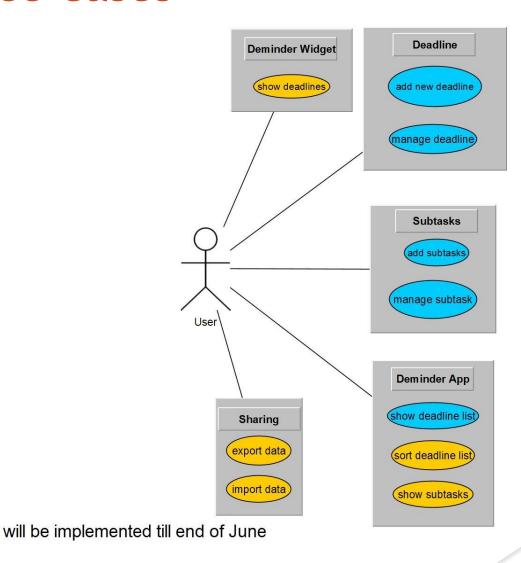
Vision

- 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

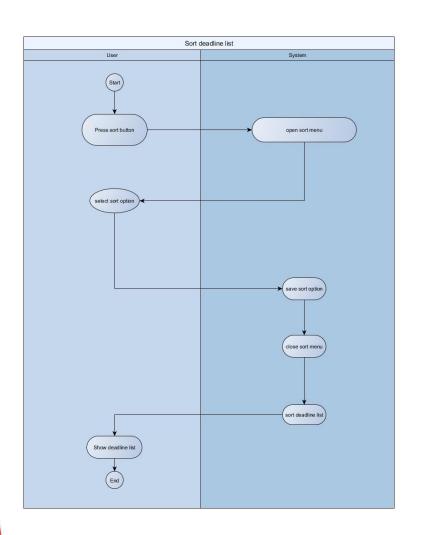


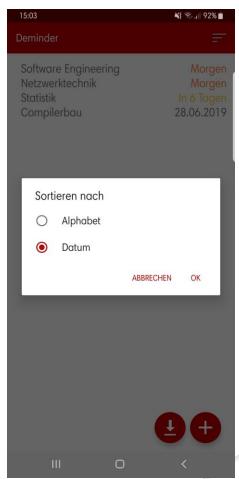
- Possibility to set deadlines as recurring
- Don't forget any important upcoming dates
- Organize and track your progress

Use cases

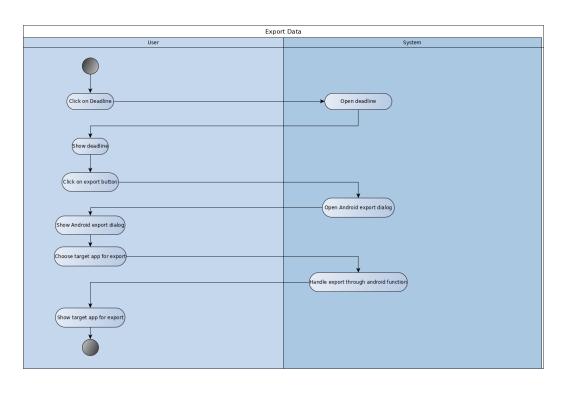


Use case - Sort deadline list

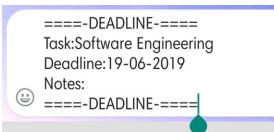




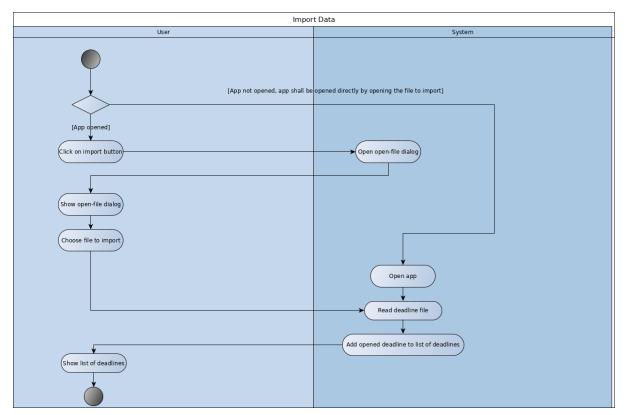
Use case - Export data





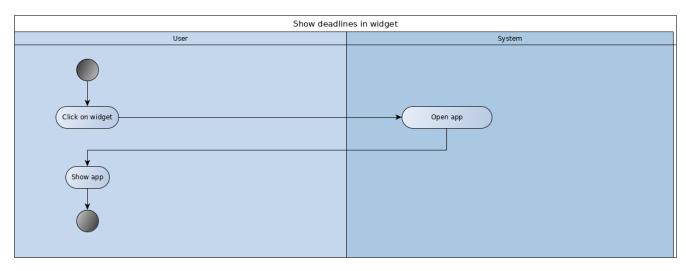


Use case - Import data





Use case - Widget





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

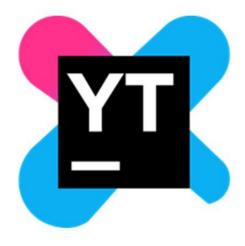
Scrum

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

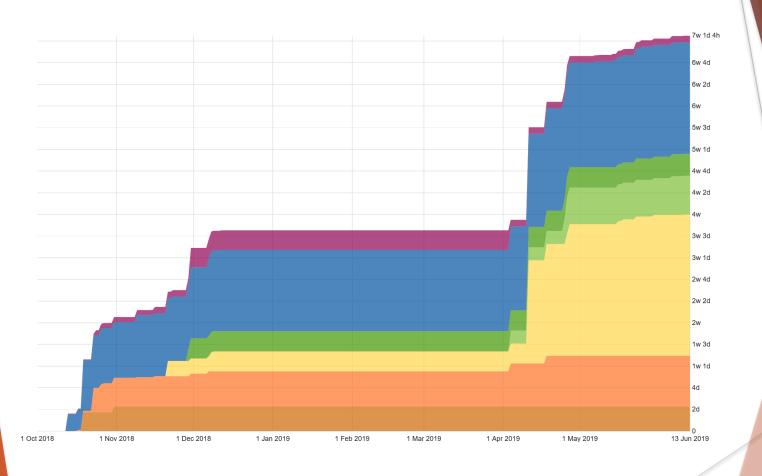
Project Management

- 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

Cumulative Chart



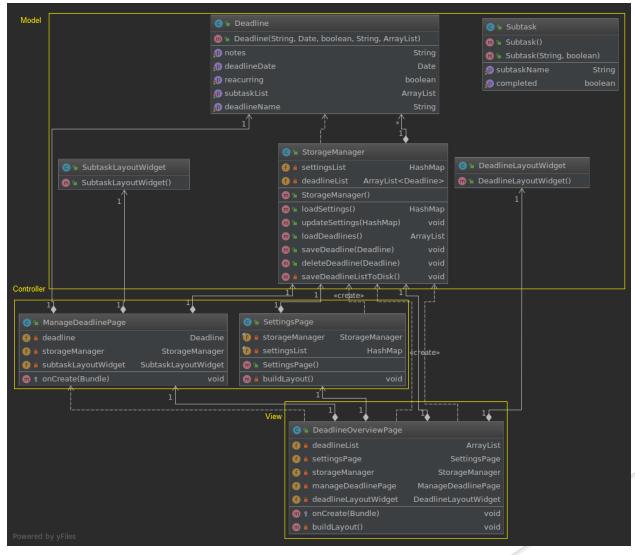
Cost Estimation

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





Class diagram





Architecture

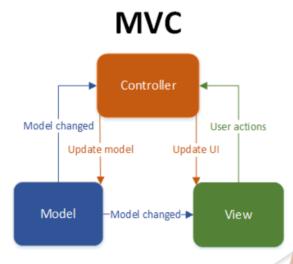
- No server, only a client side which uses MVC
- Written in Java for android

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

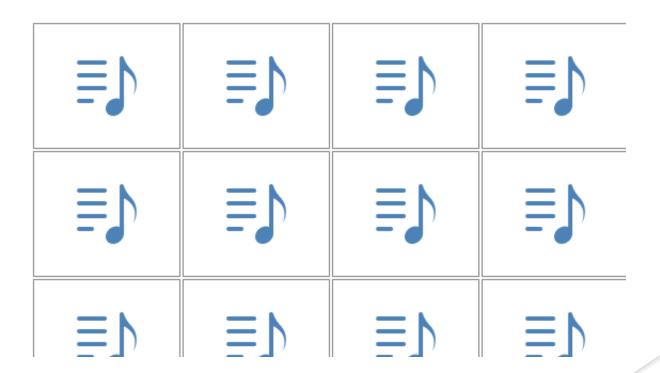
Badges:



An android app and widget to remind one about deadlines.

Testing

► Feature test with Espresso Framework



Testing - User tests

- ► Functional Testing: Checking all app content for correct functioning.
- Usability-Test: Testing the app's user-friendliness (especially layout and handling).
- Compatibility-Test: Check whether the app is compatible with different hardware and software conditions.
- ► Performance-Test: Review of the system resources required by the app during intensive use.
- Functions-Test: Check if all relevant functions of the app work.
- (Personal Feedback)

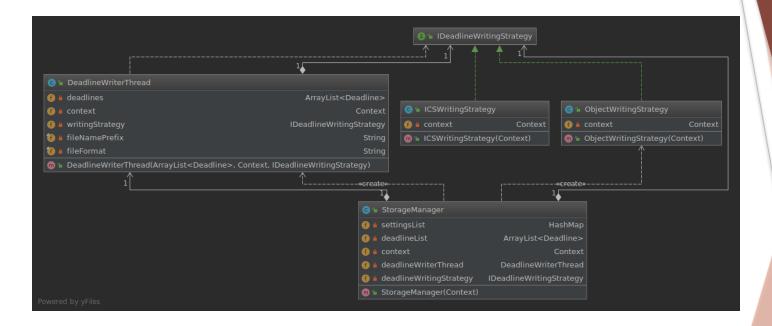
Risk Management

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

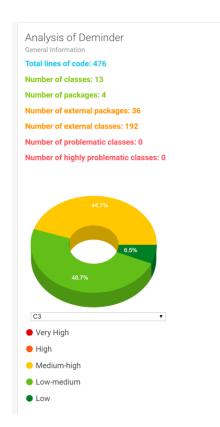
Risk Management

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

Patterns



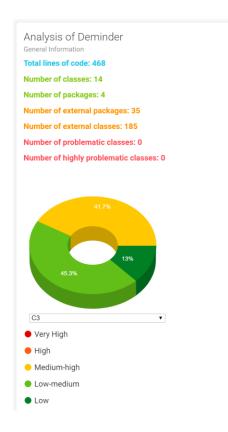
Metrics





- Complexity
- Coupling

Metrics





References

- ► Git-Repository:
 https://github.com/Kalkihe/Deminder
- ► Blog: https://deadlinereminder.wordpress.com/
- ► Download-Link:

 https://deadlinereminder.wordpress.com/201-9/06/11/installation-and-user-tests/



Thank you for your attention!