Learn IT Yourself

LERNZIELE SPIELERIESCH SELBST ERREICHEN

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Agenda

- Business
- Quality
- ► Technical Ability

Business

VISION

USE CASES

PROJECT MANAGEMENT

RUP

TIME ESTIMATION

Our Vision

- ▶ Blow up your motivation levels for reaching your goals!
- ► Turn mundane tasks such as studying into a game!

Vision – Structured Learning

- Make progress of learning digital and competitive
- Stay as motivated as you were in the beginning
- Split your learning goal into various tasks

Vision - Motivation

Competitive

- Points for completing tasks
- Highscore system
- Group statistics

Self-reflection

- Individual rating of (completed) tasks
- Reward system outside groups
- Spend points on personal rewards

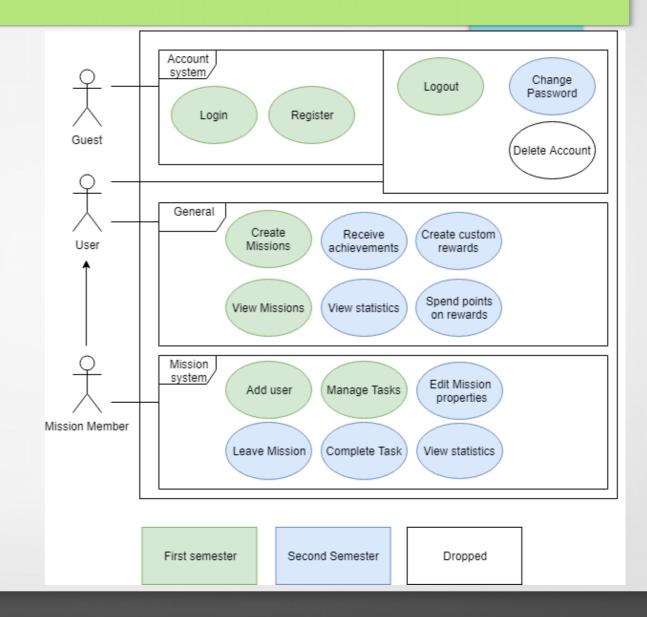
Scope - Usecases

Important Use-Cases:

- * Create Mission
- * Manage Tasks
- * Rewards
- * Achievements
- * Statistics

Dropped

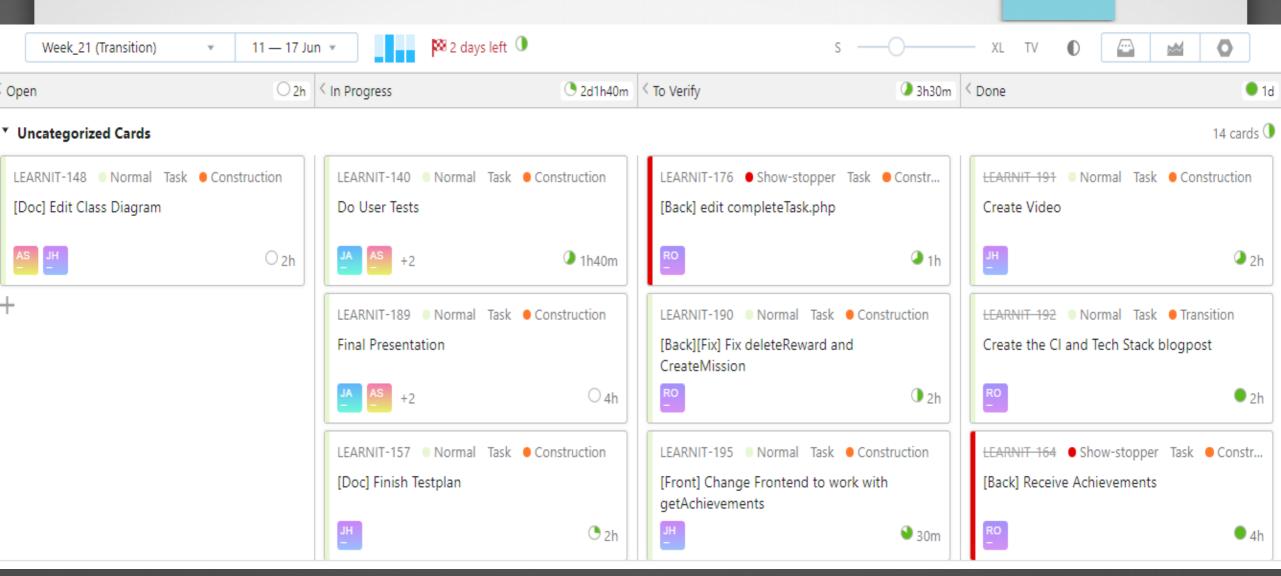
* Delete Account



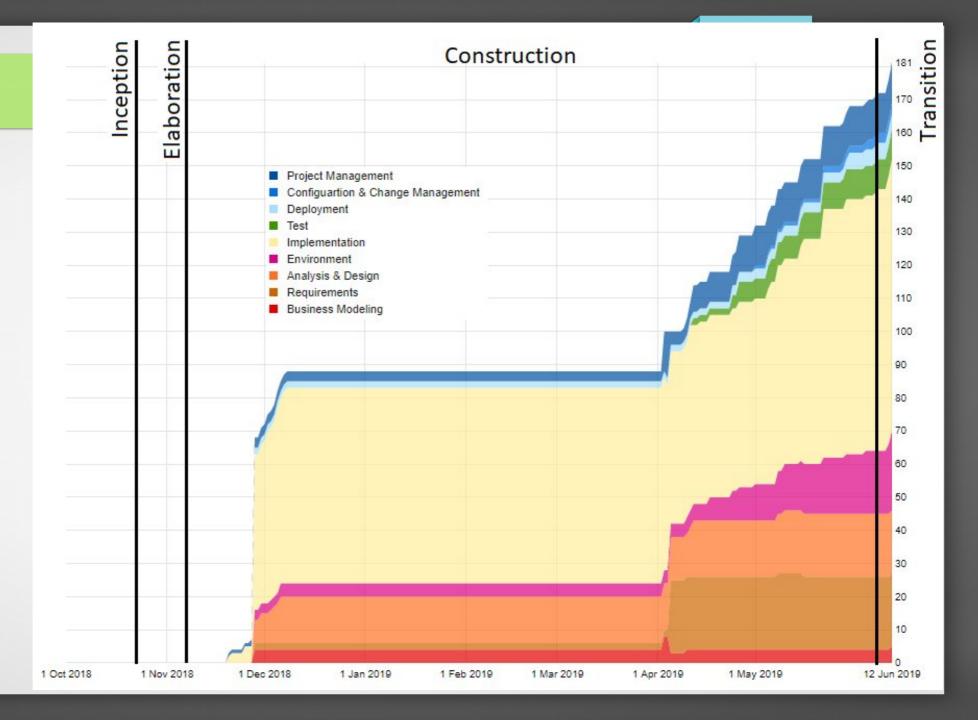
Project Management

- SCRUMMING with project management tool "YouTrack"
- Every week new sprint planning
- Gives an overview of:
 - Spent time
 - ► Tasks ToDo/ in Progress/ Done
 - Work history

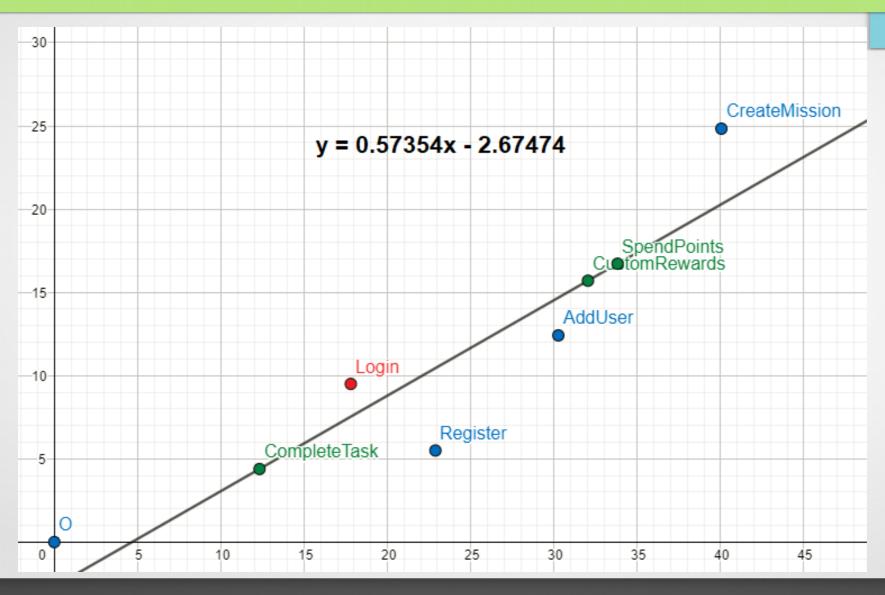
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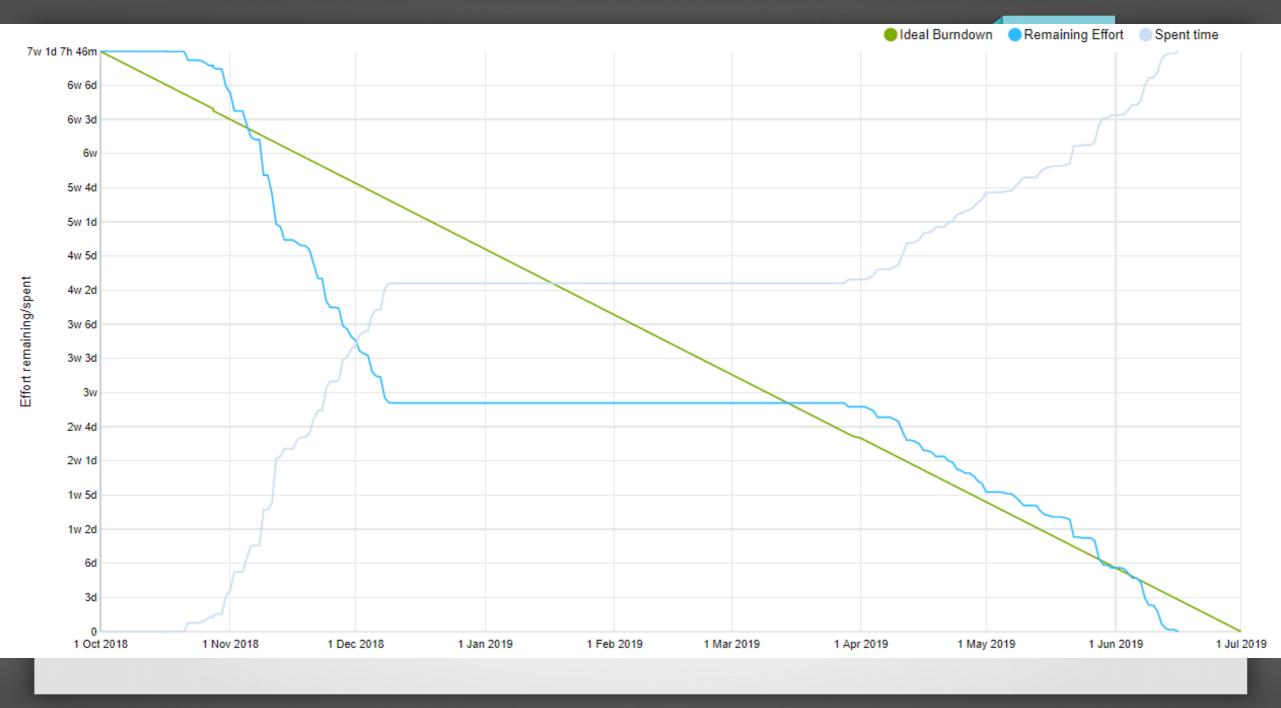


RUP



FP Time Estimation





Quality

TESTING

AUTOMATION

RISK MANAGEMENT

ARCHITECTURE

PATTERNS

METRICS

Testing



Unit Testing

Testing the functionality of individual functions

User Testing

Testing the usability

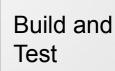
Functional Testing cucumber

Testing a complete functionality of the application

Continuous Integration











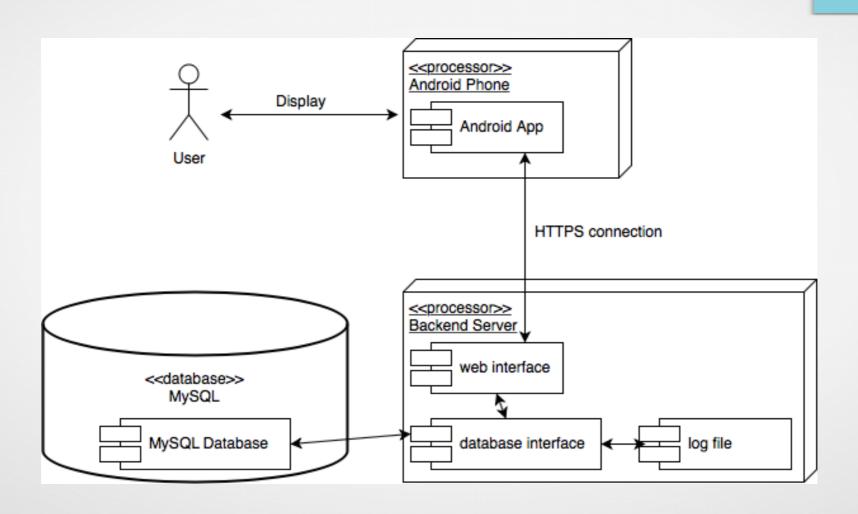


Feedback

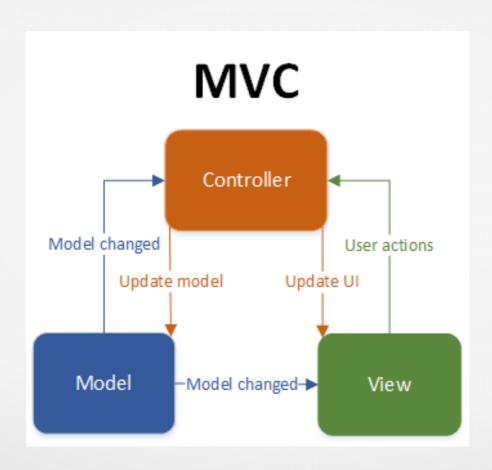
Risk Management

Risk Name	Risk Description	Risk		Risk Mitigation	Person in	Risk
Repository loss	Git Repository breaks or Github	Probability 1%	Impact 10	Having local backups	Charge Jonas	Factor 0.1
	goes down					
Server loss	Losing our Backend because of problems with our provider Contabo	3%	10	Backup of all the Code and Data (regularly)	Jannik and Mert	0.3
Hacker attacks	Sensible data like User Passwords are exploited (Data Loss) or Virus infection	5%		Implementing proper Security Measures	Everyone	0.35
Local Code loss	Losing local Code changes because of technical problems	20%	2	Frequent pushes to Git	Everyone	0.4
Member Loss	Losing a Team Member (temporarily/permamently) due to e.g. a medical condition thus falling out of schedule	1%	8	-	Everyone	0.8
Unsatisfying results	In the end the App does not fully represent the looks and features of what was initially planned	20%		Defining and implementing Use Cases correctly and prototyping frequently	Everyone	1.8
Unexpected Bugs	Code contains bugs which could e.g. crash the App or display wrong data in a productive scenario	30%	7	Proper and frequent testing	Everyone	2.3
Unexpected complexity of UC	UC is more complex and takes more time than expected	50%		Proper planning or cutting down on Features	Jonas	3
Bad Code	Bad Code makes understanding hard	50%	6	Refactoring	Everyone	3

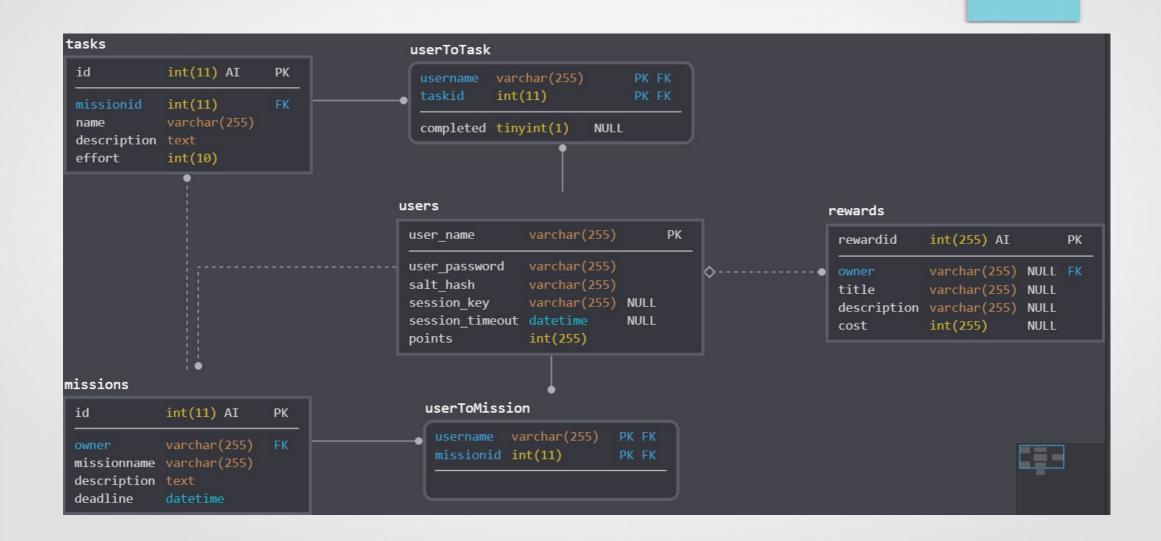
Architecture



Architecture II



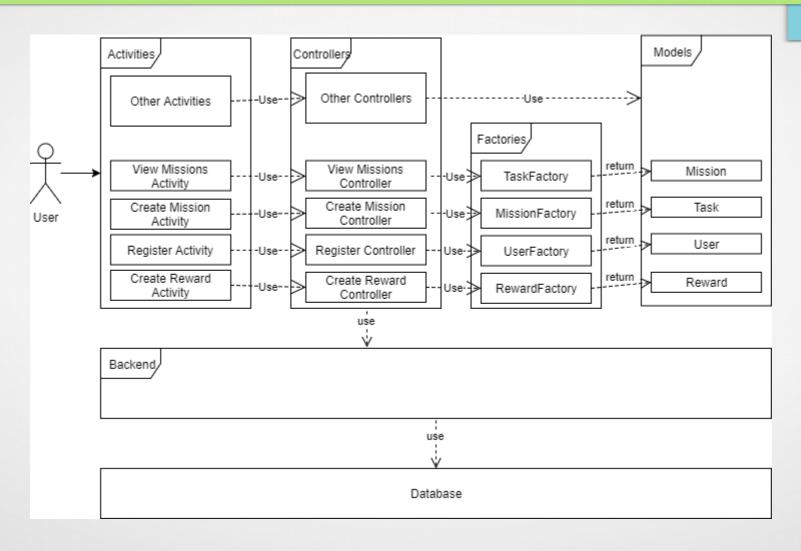
Architecture III



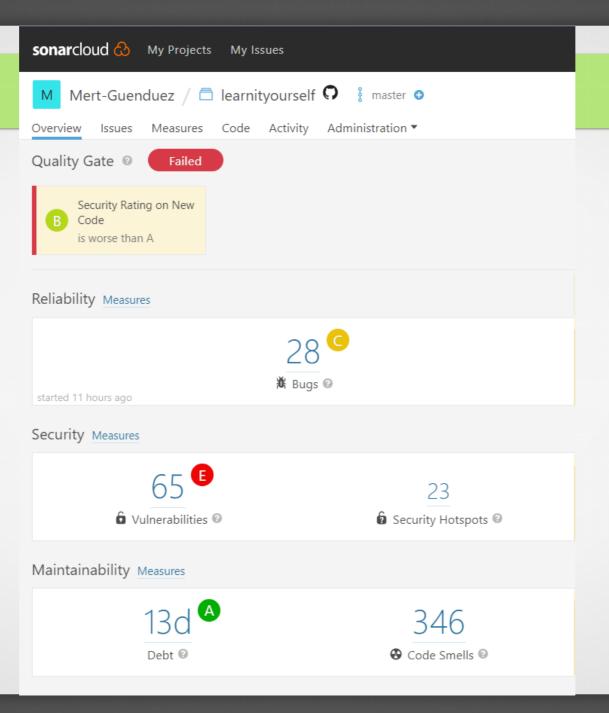
Design Patterns

- Factory Method Pattern
- ▶ Idea: Disguise the construction of a model with another class, the factory
- In our case: Static methods to create new model objects
- -> filled with data, then returned

Design Patterns II



Metrics



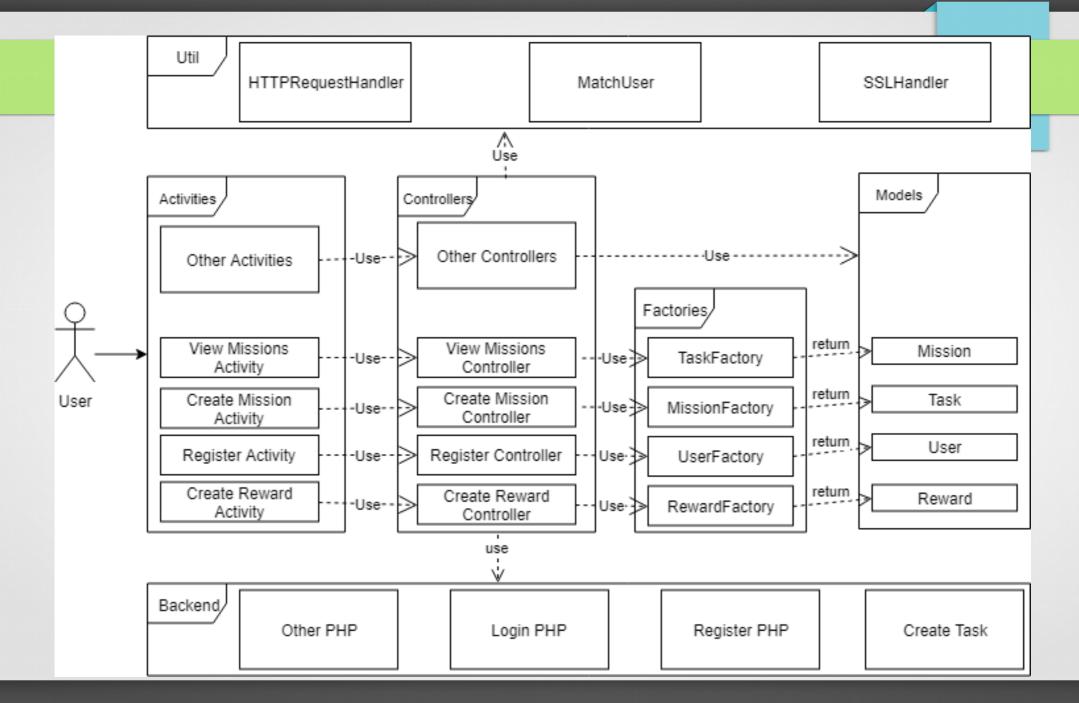
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Iearnityourself.dhbw.learnityourself.MainActivity 1,20 12 Iearnityourself.dhbw.learnityourself.ViewRewardsActivity 1,20 6 Iearnityourself.dhbw.learnityourself.model.MissionMemberAdapter 1,20 6 Iearnityourself.dhbw.learnityourself.ViewMissionsActivity 1,17 7	learnityourself.dhbw.learnityourself.model.UserAdapter		1,20	6
Iearnityourself.dhbw.learnityourself.ViewRewardsActivity 1,20 6 Iearnityourself.dhbw.learnityourself.model.MissionMemberAdapter 1,20 6 Iearnityourself.dhbw.learnityourself.ViewMissionsActivity 1,17 7	learnityourself.dhbw.learnityourself.model.MissionAdapter		1,20	6
Iearnityourself.dhbw.learnityourself.model.MissionMemberAdapter 1,20 6 Iearnityourself.dhbw.learnityourself.ViewMissionsActivity 1,17 7	learnityourself.dhbw.learnityourself.MainActivity		1,20	12
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,	learnityourself.dhbw.learnityourself.model.MissionMemberAdapter		1,20	6
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	learnityourself.dhbw.learnityourself.ViewMissionActivity		1,17	14

Method metrics	Class metrics	Package metrics	Module metrics	Proj	ect metrics	5
class				₩	OCavg	WMC
learnityourself.dhbw.learnityourself.utility.HTTPRequestHandler				2,25	9	
learnityourself dhhw learnityourself OntionsActivity				2.00	6	

Technology

CLASS DIAGRAM
TECHNICAL ABILITY
LIVE DEMO



Technical Ability

- Account
- CRUD Missions
- CRUD Tasks
- ► CRUD Rewards
- Statistics
- Achievements

Demo