Berner Fachhochschule
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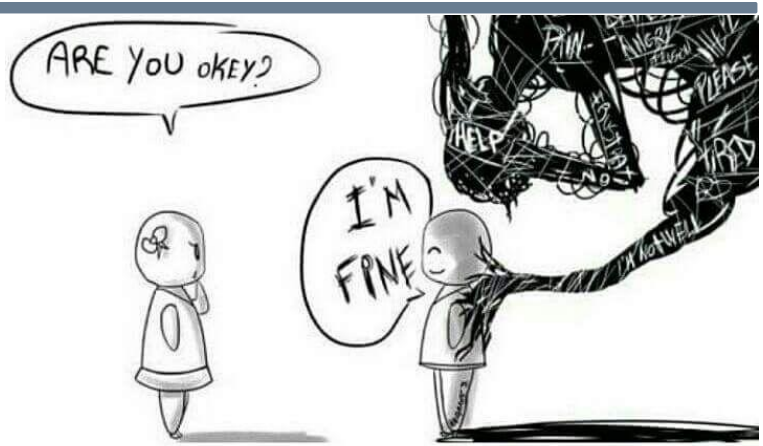


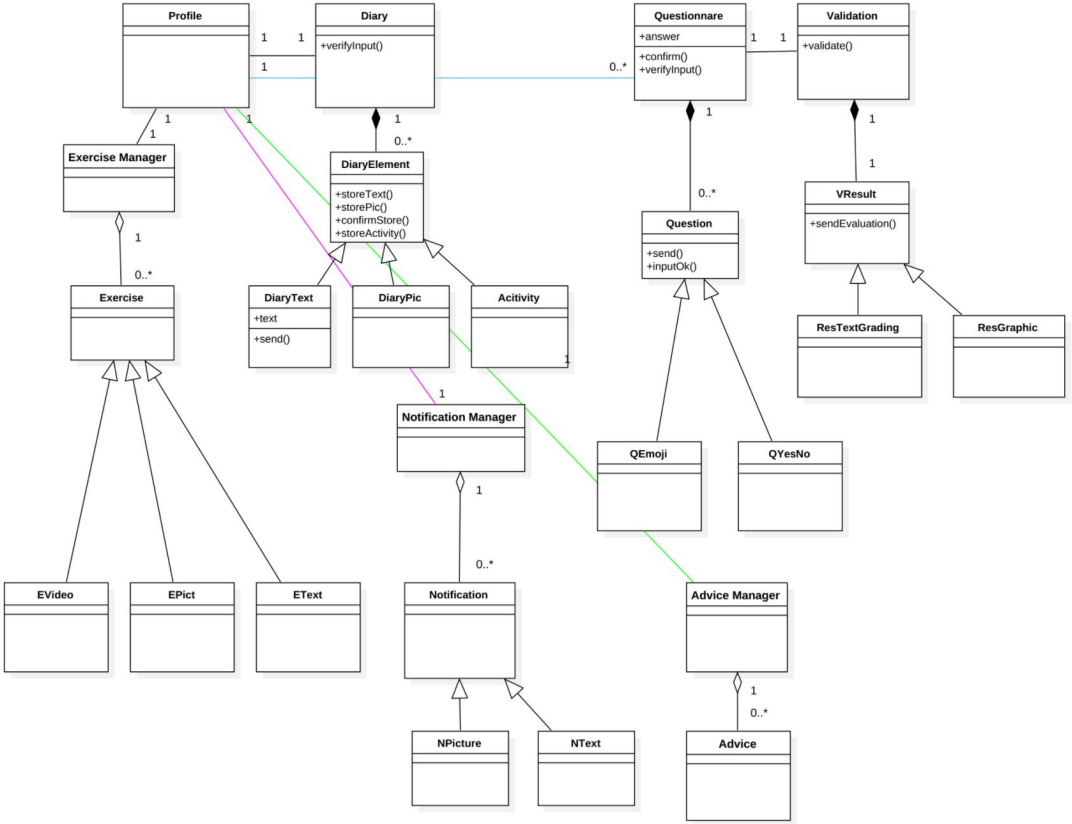
Case Study 2: webapp for depressive patients: Task 3

Team white

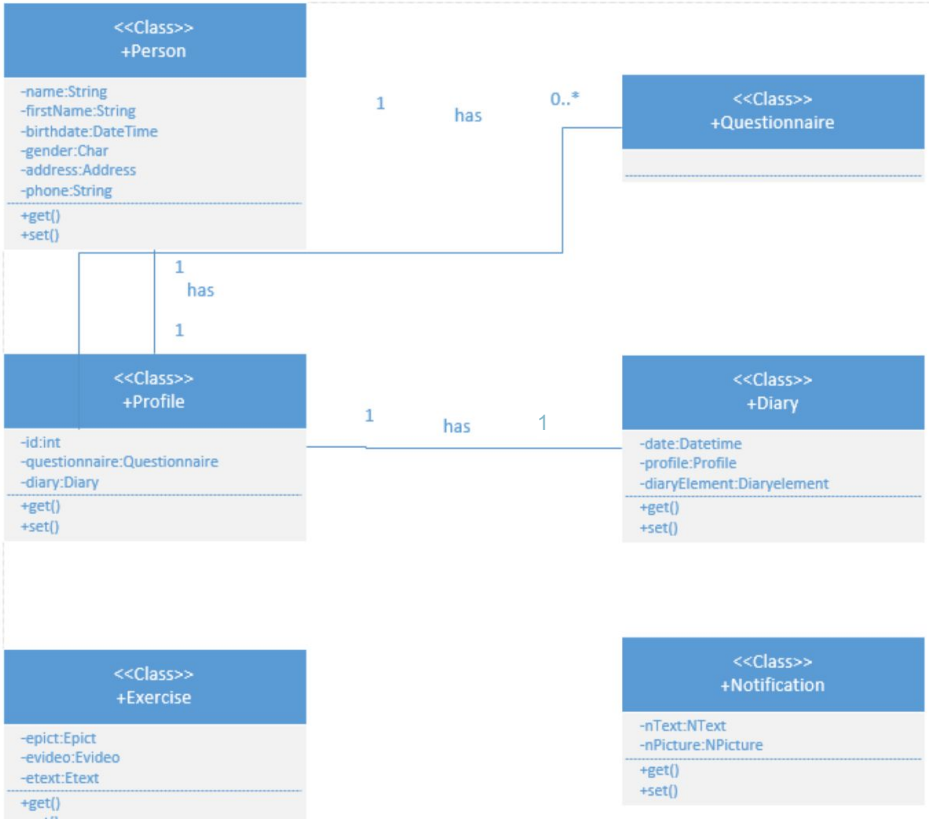
Biel, 23. November 2017, Software Engineering

- Technik und Informatik / Medizininformatik

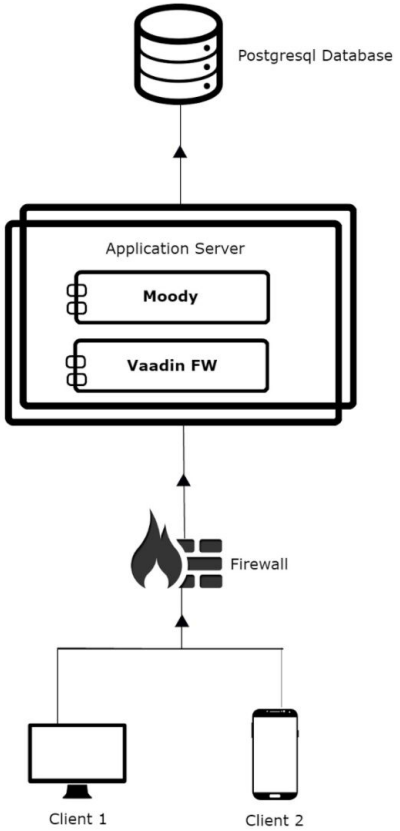
Domain Model



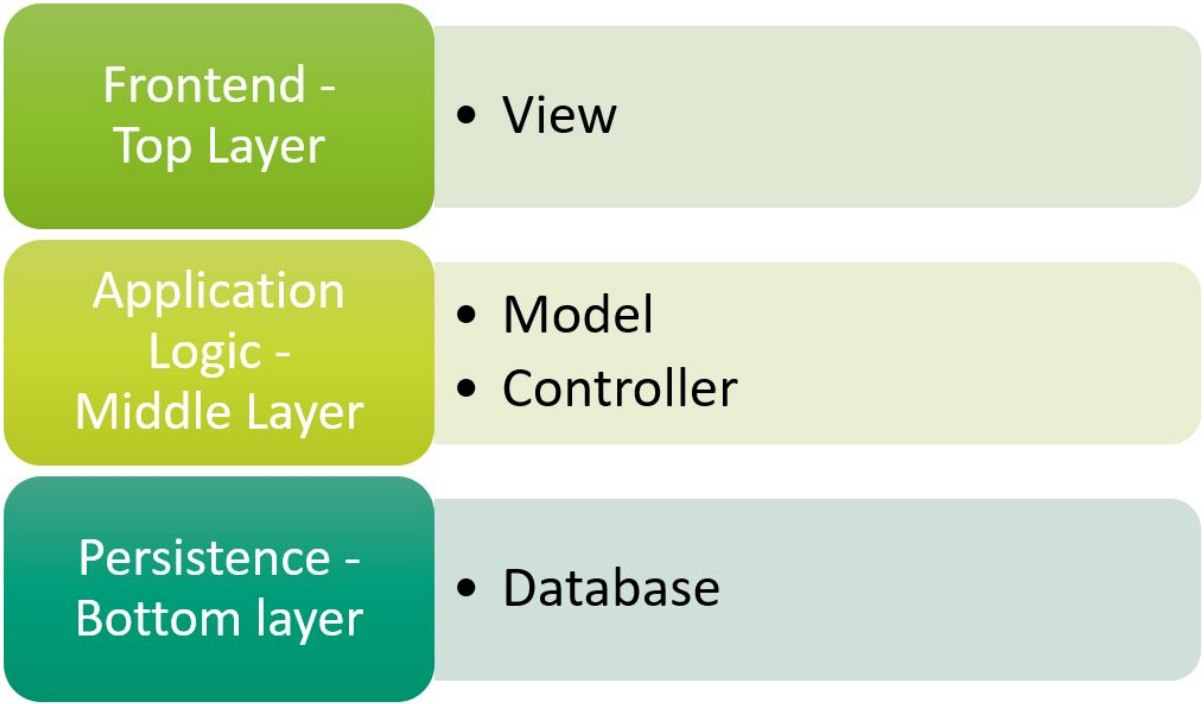
Class Diagram



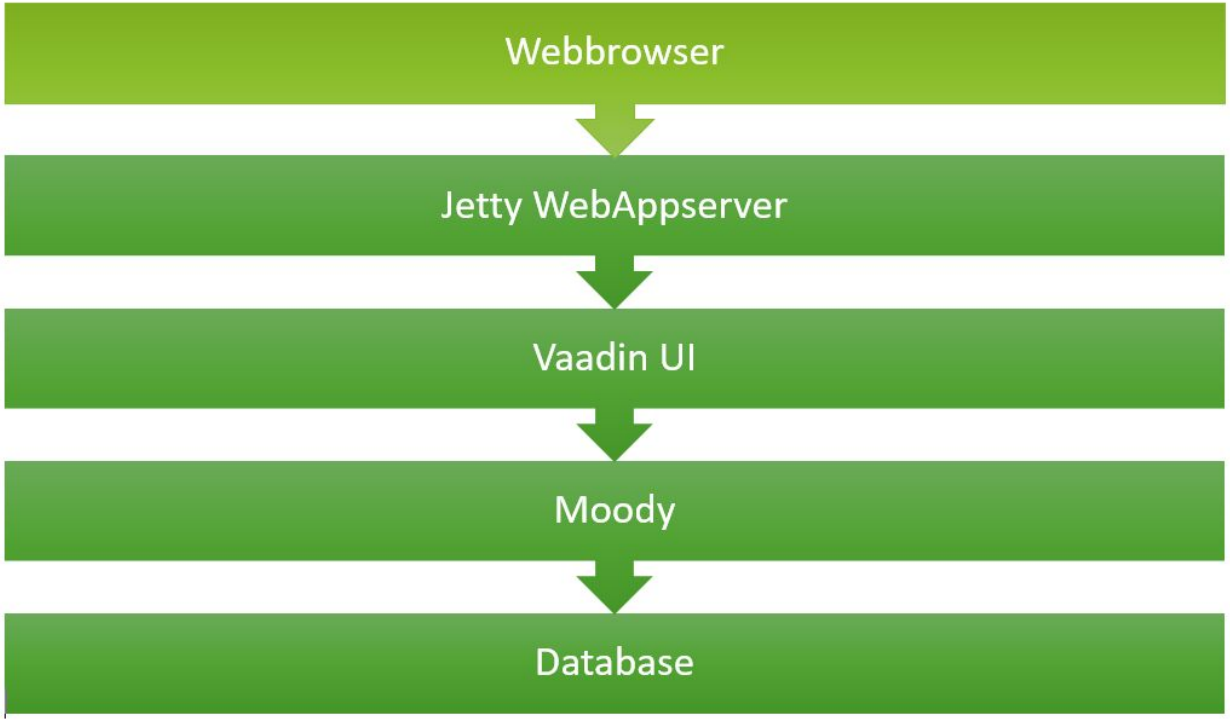
Deployment Diagram



Architectural Design



Architectural Design



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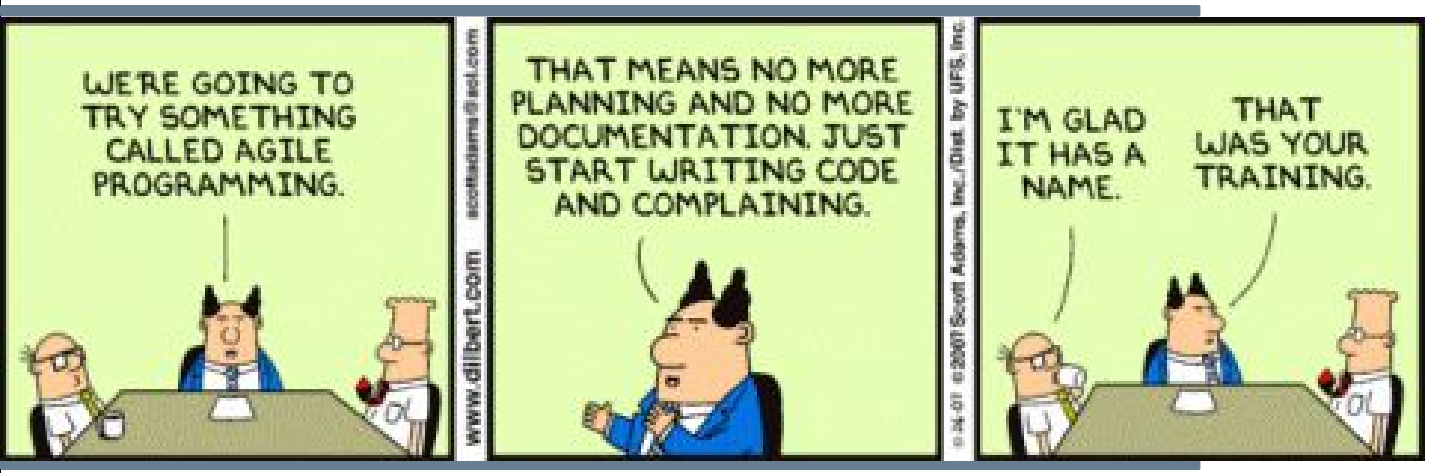

Case Study 2: webapp for depressive patients: task 4

team white

Biel, 16. November 2017, Software Engineering

- Technik und Informatik / Medizininformatik

product backlog

ID	Story Name	Description	Priority	Effort Plan Original	Effort Plan Updated	Effort Actual	Status
1	mood barometer & diary	Moody asks Questions and calculates statistics, and if needed gives feedback and recommends measures/advises. Diary collects all user inputs per day.	high	80h			
2	sleep problems	Moody gives hints and tips for going to sleep	low	40h			
3	breathing exercise	Moody gives assisted exercises (with visual and acousting support) for calming down	high	80h			
4	depressions assessment	User answers questionnaire and Moody calculates depression level, and according to severity gives hints and tips	high	40h			
5	depression history	User sees his personal history of depression level as a simple diagram, different periods of time selectable	medium	60h			
6	forum	User can interact with other Moody users	low	200h			cancelled
7	physical activity	Moody reminds user of simple physical activities, based on diary trigger (not enough done)	medium	40h			
8	eating and drinking	Moody reminds user of eating (incl menu advice) and drinking, based on diary trigger (not enough done)	low	40h			
9	start into the day	Moody sends a push notification on daily basis to cheer up the user in the morning	high	20h			
10	forgotten medication	User forgets to take medication. Moody reminds him with push notifications about forgotten therapies.	low	20h			
11	assisted autogenous training	Moody gives assisted exercises for autogenous training.	low	40h			
12	emergency alerting	In case of emergency, Moody helps the user to alert professional care and also supports him to find the nearest psychatrist	medium	80h			
13	activity todo list	Moody presents a list of possible activities for today, and the user is able to check done activities	high	40h			

detail backlog for stories 1, 9 and 13 (high prio)

ID	Sprint	Name	Description	Components	Owner	Reviewer	Priority	Effort Plan Original	Effort Plan Updated	Effort Actual	Status
1.1	1	Data model	Design data model for profile (including name, contact details)	Database, Model			1-blocker	4			waiting
1.15	1	UI diary	User interface for diary	UI			2-high	8			waiting
1.16	1	diary elements	Define diary entries	Model, Controller			2-high	4			waiting
1.2	1	Data model	Design data model for questionnaire + questions + answers	Database, Model			2-high	4			waiting
1.3	1	Data model	Design data model for validation	Database, Model			2-high	6			waiting
1.4	1	Data model	Design data model for diary, diary elements	Database, Model			2-high	6			waiting
1.5	1	questions	Define Question type yes/no	Model, Controller			2-high	6			waiting
1.7	1	UI questions	User interface for questions / answers	UI			2-high	4			waiting
9.1	1	Data model	Design data model for notification store	Database, Model			2-high	6			waiting
9.2	1	example messages	Write example notification messages	Database			2-high	2			waiting
9.3	1	UI	Design User Interface of notification message	UI, Controller			2-high	4			waiting
9.4	1	timer	Define timer for push notification	Controller			2-high	2			waiting
9.5	1	push message	Notification mechanism to push message to operating system	Controller, Model			2-high	3			waiting
9.6	1	mechanism	Mechanism for choosing right message per day	Controller			2-high	3			waiting
13.1	1	Data Model	Datamodel with advice messages	Model			2-high	6			waiting
13.3		Activity List with advice messages	The scalable list of activities	DB, Model			2-high	6			waiting
13.5	1	UI	Design responsive User Interface for activity list with choice mechanism	UI, Controller			2-high	5			waiting
1.11		question validation	Define question validation	Model, Controller			3-medium	4			waiting
1.12		questionnaire calculation	Define questionnaire calculation	Model, Controller			3-medium	4			waiting
1.13		statistics	Define statistics of questionnaires	Model, Controller			3-medium	4			waiting
1.14		UI statistics	User interface for statistics	UI			3-medium	4			waiting
1.6		questions	Define Question type emoji	Model, Controller			3-medium	2			waiting
1.8		timer questionnaire	Define timer for questionnaire	Model			3-medium	4			waiting
13.2		Data Model	Integration of model inside of Database	Model			3-medium	6			waiting
13.7		Persistence / History	The list of done activities is being stored inside of DB	DB, Collections			3-medium	3			waiting
13.8		History review	The list of done activities with timestamp is callable over UI	UI, Controller, DB			3-medium	3			waiting
1.17		write recomm.	Write recommendations / Advices	Database			4-low	4			waiting
1.18		validation context	Define context of validation result with matching recommendation / advices	Model, Controller			4-low	8			waiting
1.9		example questions	Write example questions Yes/no	Database			4-low	2			waiting
13.4		Structure of activities	Organisation of activities structure into Categories: season, place and daytime	Model			4-low	6			waiting
13.6		User input / scalable list	User input is added to the existing list of activities	Model, DB			4-low	5			waiting
1.10'		example questions	Write example questions Emoji	Database			4-low	2			waiting

sprint no 1 planning

ID	Sprint	Name	Description	Components	Owner	Reviewer	Priority	Effort Plan Original	Effort Plan Updated	Effort Actual	Status
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1.16	1	diary elements	Define diary entries	Model, Controller			2-high	4			waiting
1.2	1	Data model	Design data model for questionnaire + questions + answers	Database, Model			2-high	4			waiting
1.3	1	Data model	Design data model for validation	Database, Model			2-high	6			waiting
1.4	1	Data model	Design data model for diary, diary elements	Database, Model			2-high	6			waiting
1.5	1	questions	Define Question type yes/no	Model, Controller			2-high	6			waiting
1.7	1	UI questions	User interface for questions / answers	UI			2-high	4			waiting
9.1	1	Data model	Design data model for notification store	Database, Model			2-high	6			waiting
9.2	1	example messages	Write example notification messages	Database			2-high	2			waiting
9.3	1	UI	Design User Interface of notification message	UI, Controller			2-high	4			waiting
9.4	1	timer	Define timer for push notification	Controller			2-high	2			waiting
9.5	1	push message	Notification mechanism to push message to operating system	Controller, Model			2-high	3			waiting
9.6	1	mechanism	Mechanism for choosing right message per day	Controller			2-high	3			waiting
13.1	1	Data Model	Datamodel with advice messages	Model			2-high	6			waiting
13.3		Activity List with advice messages	The scalable list of activities	DB, Model			2-high	6			waiting
13.5	1	UI	Design responsive User Interface for activity list with choice mechanism	UI, Controller			2-high	5			waiting

sprint no 1 planning todo

- distribute tasks to team members (owner's)
- distribute tasks to reviewers

- as soon as planning is finished:
  hold daily stand-up meeting (at lesson start)