AMOS-Project 3 – QAchat Planning Documents



AMOS P3 - Planning Document Project Data

Project Name	
	L W W W W W W W W W W W W W W W W W W W
Online team meeting	https://fau.zoom.us/j/68283073150
Production system (if any)	
Test system (if any)	
GitHub repository	amosproj/amos2023ss03-gachat (github.com)
GitHub feature board	amos2023ss03-feature-board (github.com)
GitHub impediments backlog	amos2023ss03-impediments-backlog (github.com)
Team T-shirt (white)	
Team T-shirt (black)	woman design: https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/931c832c-67cc-46ca-bca7-e49019a052f2
	man design: https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/d45e26d4-77f0-42cf-a412-f67b2071facf
Additional materials	
Course information	https://amos.uni1.de
Happiness index tool	https://happy-amos.appspot.com/
Planning Poker	https://planningpokeronline.com/

AMOS P3 - Planning Document Project Team

Last Name	First Name	GitHub User Name	Email Address
Alkadour	Abdelkader	Kadi-7	a.alkadour@campus.tu-berlin.de, basickadour@gmail.com
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El Brak	Sara	SaraElBrak	sara.el@fau.de
Erben	Emanuel	emuguy1	emanuel.erben@fau.de, emanuel.erben@gmail.com
Konheiser	Tobias	tkonheiser	tobias.konheiser@fau.de
Stojkovic	Vukica	vukica1	vukica.stojkovic@yahoo.de / vukica.stojkovic@campus.tu-berlin.de
Nützel	Felix	Felix-012	felix.nuetzel@fau.de
Palarus	Jesse	jtshark	j.palarus@campus.tu-berlin.de, jtsharkjtshark@gmail.com
Pucic	Amela	amela16	a.pucic@campus.tu-berlin.de, amela1999@hotmail.de

AMOS P3 - Planning Document

Role Assignments

#	Meeting Day	Product Owner	Software Developer	Release Manager	Scrum Master	Comment
1	2022-10-19	Tobias Konheiser, Sara El Brak	Everyone else	Emanuel Erben	Vukica Stojkovic	
2	2022-10-26	Sara El Brak, Tobias Konheiser	Everyone else	Emanuel Erben	Vukica Stojkovic	
3	2022-11-02	Tobias Konheiser, Sara El Brak	Everyone else	Emanuel Erben	Vukica Stojkovic	
4	2022-11-09	Sara El Brak, Tobias Konheiser	Everyone else	Emanuel Erben	Vukica Stojkovic	
5	2022-11-16	Tobias Konheiser, Sara El Brak	Everyone else	Emanuel Erben	Vukica Stojkovic	
6	2022-11-23	Sara El Brak, Tobias Konheiser	Everyone else	Emanuel Erben	Vukica Stojkovic	
7	2022-11-30	Tobias Konheiser, Sara El Brak	Everyone else	Emanuel Erben	Vukica Stojkovic	Mid-term due
8	2022-12-07	Sara El Brak, Tobias Konheiser	Everyone else	Emanuel Erben	Vukica Stojkovic	
9	2022-12-14	Tobias Konheiser, Sara El Brak	Everyone else	Emanuel Erben	Vukica Stojkovic	
10	2023-01-11	Sara El Brak, Tobias Konheiser	Everyone else	Emanuel Erben	Vukica Stojkovic	
11	2023-01-18	Tobias Konheiser, Sara El Brak	Everyone else	Emanuel Erben	Vukica Stojkovic	
12	2023-01-25	Sara El Brak, Tobias Konheiser	Everyone else	Emanuel Erben	Vukica Stojkovic	
13	2023-02-01	Tobias Konheiser, Sara El Brak	Everyone else	Emanuel Erben	Vukica Stojkovic	
14	2023-02-08	Sara El Brak, Tobias Konheiser	Everyone else	Emanuel Erben	Vukica Stojkovic	Demo day!
15	2023-02-15	Tobias Konheiser, Sara El Brak	Everyone else	Emanuel Erben	Vukica Stojkovic	Retrospective

AMOS P3 - Planning Document Team Contract

Goals	Develop a good quality and working Chatbot based on defined requirements
	Achieve the technical target in good atmosphere and clear communication
Meeting norms	Meeting topics are inserted in the agenda before the meeting starts
	Everybody aims to be on time, but being late is communicated beforehand and handled in an agile way
	Meeting topics need to be sharp and precise
	Meeting time must no be exceeded more than 30 min, otherwise schedule a new meeting
Working norms	We value quality over quantity
	Everyone contributes regularly and communicates openly
Coordination norms	Everyone sticks to their roles and in case of problems communicates
Communication norms	We check our communication channels at least once a day
	Important messages are send in our WhatsApp group
Consideration norms	We discuss disagreement openly
	We vote for a final resolution
	We help in case someone needs it
Cont. improvement norms	Happiness index and stand up emails are reviewed in team meeting
	If problmes are recognized escalate them to the team
Rewards	Online team event
	Everyone celebrates via a reaction in the zoom chat after each sprint
Sanctions	Assign unwanted jobs to person (rework a file,)
Signatures	Tobias Konheiser
_	Hafidz Arifin
	Amela Pucic
	Emanuel Erben
	Sara El Brak
	Jesse Palarus
	Felix Nützel
	Abdelkader Alkadour
	Vukica Stojkovic

AMOS P3 - Planning Document Product Goal

Product Vision	Project Mission
QAchat envisions an environment in which access to knowledge is just a message away. We aim to leverage the rapid advancement in language model technologies to create a seamless interface that enables employees to get their questions answered accurately, quickly, efficiently, and with ease - by a general language model that is trained on specific knowledge. Our goal is to provide a simple and convenient point of contact, with an easy-to-use interface that is integrated into widely used communication tools, and to make knowledge accessible to everyone - irrespective of their geographical location, language or technical ability.	asked and answers are provided.

AMOS P3 - Planning Document Product Glossary

Term	Definition
Administrator (Admin)	An Administrator is a person who has access to all parts of the project.
Application Programming Interface (API)	An API is a defined interface that applications can use to exchange data and information.
Artificial Intelligence (AI)	Artificial Intelligence is a field of research that aims to make computers think and act like humans.
BERT	BERT is an open source LLM that has been developed by Google.
Chatbot	A chatbot is an application that can communicate with a user through short text messages and answer questions using artificial intelligence.
Company-Internal Information	Company-Internal Information is information about the company and its projects and processes that is publicly available or stored in Confluence, Slack, and Google Drive.
Confluence	Confluence is a software used to document various types of data.
Google Drive	Google Drive is a cloud storage solution provided by Google.
Large Language Model (LLM)	A Large Language Model is an Al model specialized for text and sentence generation.
LLaMA	LLaMA is an open source LLM that has been developed by Meta and Stanford.
Slack	Slack is a software that is used for text messaging between groups or individuals.
Slackbot	A Slackbot is a chatbot that is integrated into Slack.
T5	T5 is an open source LLM that has been developed by Google.
User	A user is a person who interacts with the system by chatting with the Slackbot.

AMOS P3 - Planning Document

Mid-Project Release plan

Sprint	Theme	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
Release	e						
	Total			138	138		
	Total			100	100		
Sprints							
1	Large Language Model n	nethods		28	138	28	138
2	Software architecture			29	110	26	110
3	Large Language Model p	rototypes		26	81	23	84
4	Code frameworks			28	55	26	61
5	Setup & Documentation			27	27	0	35
6	Sprint 6				0		35
Feature	es						
1	Large Language Model n	nethods					
	. ggwageeuoi ii	Identify the existing capabilities of LLM methods and their underlying algorithms					
		racinary and chacang capabilities of Elin meaneds and their anaditying algerianis	Research Slack bot requirement	5		5	
			Research LLM models	5		5	
			Research LLM method 1 (search API) properties	5		5	
			Research LLM method 2 (semantic search) properties	5		5	
			Research LLM method 3 (fine tuning) properties	5		5	
			Team logo design	3		3	
2	Software architecture						
		Determine the software architecture and the used components					
			Define diagram of runtime components	5		5	
			Define diagram of code components	8		8	
			A summary of the underlying technology stack	5		3	,
			Textual explanation of the diagrams and choices	5		5	
			Initialize code repository	3		3	
			Initialize the software bill of materials	3		2	
3	Large Language Model p	rototypes					
		Further evaluate the functionality of each LLM method					
			Research semantic search vector storage	5		3	
			Research Slack web server hosting	5		3	
			Implement Alpaca/LLaMA LLM prototype	3		5	
			Implement BERT LLM prototype	5		3	
			Implement T5 LLM prototype	3		3	
			Create the LLM-server code framework	3		5	
			Create coding guidelines	2		1	
4	Code frameworks						
		Provide a structured foundation for building the chatbot					
			Research LLM server hosting	5		5	
			Determine the communication protocols used	3		3	
			Create Slack bot code framework	5		3	
			Create the semantic search code framework	3		3	
			Create the data processing code framework	3		5	
			Update product vision and product mission	3		2	
			Test Slack	3		2	

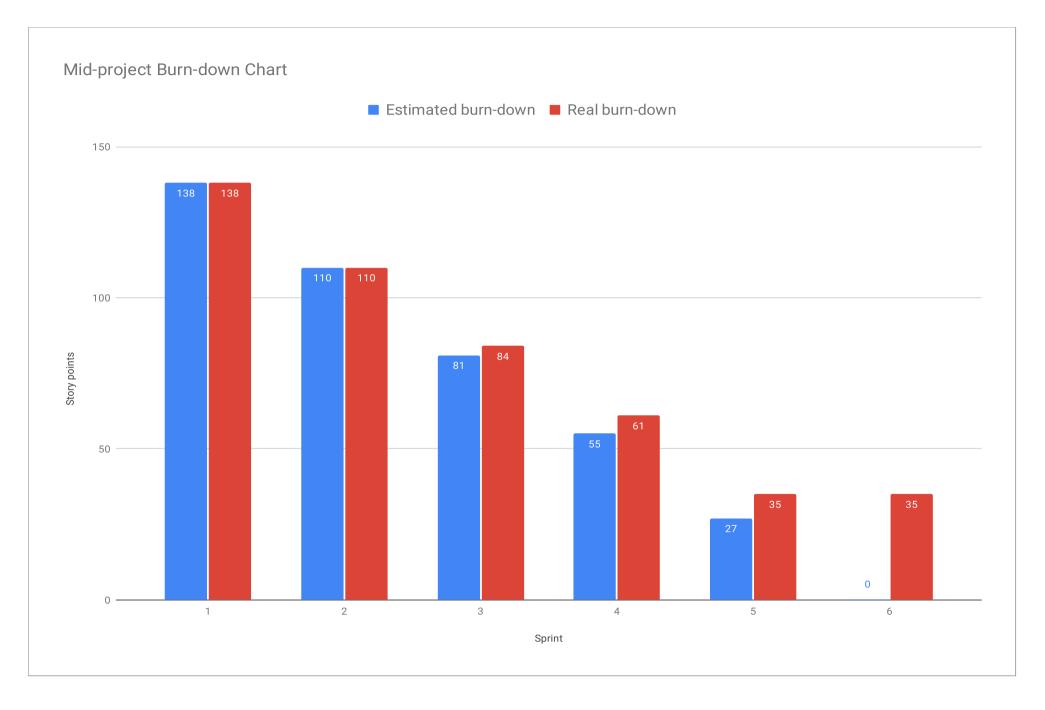
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Mid-Project Release plan

					Est.		Real
Sprint	Theme	Goal	Feature Name	Est. Size	Remaining	Real Size	Remaining
			Test DeepL API	3		3	j
5	Setup & Documentation						
		Prepare the necessary setups and extend the documentation					
			Create a build process video	5			
			Create a secure and private file exchange channel	3			
			Create testing setup	5			
			Set up vector database	2			
			Set up LLM for embedding generation	2			
			Move existing documentation to GitHub Wiki	5			
			Document Slackbot setup process	2			
			Set up LLM for chat message generation	3			
6	Sprint 6						

AMOS P3 - Planning Document

Mid-project Burn-down



AMOS P3 - Planning Document Final Project Release plan

					Est.		Real
Sprint	Theme	Goal	Feature Name	Est. Size	Remaining	Real Size	Remaining
Release	•						
	Total			0	0		
Sprints							
				_	_	_	_
1				0	0	0	0
2				0	0	0	0
3				0	0	0	0
•••					0		0
F	_						
Feature	S						
1							
2							
3							

AMOS P3 - Planning Document Definition of Done

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
10	Acceptance criteria are met.		
11	Work products are uploaded to the Github repository.		
12	A pull request is created for each related branch.		
13	The work products in the pull requests are reviewed.		
14	The corresponding branches are merged and closed.		
15	The bill of materials section of the planning documents is updated.		
16	All defined conventions are complied with.		
21		A release candidate with a working and meaningful increment to the previous sprint is tagged.	
22		Previously established features and security mechanisms must continue to work.	
23			
31			The project can be successfully built and deployed.
32			All created tests are passed.
34			The implemented features pass a simple user test.
35			Developer documentation is created.
36			User documentation is created and updated
37			The release has been approved by all team members

AMOS P3 - Planning Document Documentation

Type	Link / reference
Team Meeting Agenda	Team Meeting Agenda
Checklists	https://docs.google.com/spreadsheets/d/1K46ImoocSKWYXWQgVVGndU6QzNazhF-i7bsbbovnpMk/edit?usp=sharing

AMOS P3 - Planning Document

Bill of Materials

Context	Name	Version	License	Comment
1	python	3.8	Python License 2.0.1	
2 supabase	supabase	1.0.3	MIT License	
3 Ilama-cpp-python	llama	0.1.39	MIT License	
4 langchain	langchain	0.0.154	MIT License	
5 slack_sdk	Slack API	3.21.3	MIT License	
6 openai	OpenAi	0.27.5	MIT License	
7 atlassian-python-api	atlassian-python-api	3.36.0	Apache License 2.0	
8 selenium	selenium	4.9.0	Apache License 2.0	
9 numpy	numpy	1.24.3	BSD License (BSD-3-Clause)	
10 pandas	pandas	2.0.1	BSD License (BSD-3-Clause)	
11 aleph-alpha-client	Aleph-Alpha	3.1.0	MIT License	
12 sentence_transformers				
13 InstructorEmbedding				
14 slack-bolt	Slack Bolt	1.18.0	MIT License	
15 slack-sdk	Slack SDK	3.21.3	MIT License	
16 deepl	DeepL API	1.14.0	MIT License	

AMOS P3 - Planning Document Planning Poker

Last Name	First Name	Value			
Alkadour	Abdelkader	0			
Arifin	Hafidz	0	0.00	OK	
El Brak	Sara		0100		
Erben	Emanuel	0			
Konheiser	Tobias		0	No size	
Stojkovic	Vukica		1	Trivial size	
Nützel	Felix	0	2	Small size	
Palarus	Jesse	0	3	Medium size	
Pucic	Amela	0	5	Large size	
			8	Very large size	
			13	Too large (size)	

Additional Documentation

Team Meeting Agenda "AMOS QAchat"

Date: 2023_05_24

ID	Topic	Time	Author	Description	Result	Decision	Responsible
1	Sprint Review	30	PO	Release Manager creates release candidate build PO walks through "awaiting review" tickets, probing SDs			
2	Sprint Release	5	PO	- PO decides release - Release Manager creates release			
3	Sprint Retrospective	15	SM	- SM reviews the impediments - SM performs roll calls - Everyone answers happiness index - Review of Happiness index and standup emails			
4	Sprint Planning	30	PO	- PO works through product backlog - SD perform planning poker			
5							
6							
7							
8							
9							
10	Open Points	5	Everybody				
•	•	85		-			

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Team Meeting Agenda 2023 05 22 QAware

Team Meeting Agenda "AMOS QAchat"

Topic Time Author Description Result Decision Responsible demonstration of current 1 state 10 10 TBD 2 questions from Sebastian - About the NDA: Shoud we plan for real data or create dummy data?
- Which datatypes should be supported (PDF, Docx, HTML, Confluence, Slack)? - NDA for real data - focus on Confluence, Slack General - Who will be allowed to add data to the database?
- Which interface (CLI, GUI) should be created for data ingestion? channel would be gread
- automatic database update with blacklist 3 questions to Sebastian 10 Tobi - should there be a IAM or sth like this for the data when the user ask a question - in which language should the ChatBot answer (always german???) 4 questions to Sebastian 20 Team - language change would be nice to have 5 10 50

Team Meeting Agenda "AMOS QAchat"

ID	Topic	Time	Author	Description	Result	Decision	Responsible
1	Sprint Review	30	PO	- Release Manager creates release candidate build - PO walks through "awaiting review" tickets, probing SDs			
2	Sprint Release	5	PO	- PO decides release - Release Manager creates release			
3	Sprint Retrospective	15	SM	- SM reviews the impediments - SM performs roll calls - Everyone answers happiness index - Review of Happiness index and standup emails			
4	Sprint Planning	30	PO	- PO works through product backlog - SD perform planning poker			
5	Definition of Done	5	Tobi + Sara	agree on project specific DoD			
6							
7							
8							
9							
10	Open Points	5	Everybody				
		90					

Team Meeting Agenda "AMOS QAchat"

ID	Topic	Time	Author	Description	Result	Decision	Responsible
1	Sprint Review	30	PO	Release Manager creates release candidate build PO walks through "awaiting review" tickets, probing SDs			
2	Sprint Release	5	PO	- PO decides release - Release Manager creates release			
3	Sprint Retrospective	15	SM	- SM reviews the impediments - SM performs roll calls - Everyone answers happiness index - Review of Happiness index and standup emails			
4	Sprint Planning	30	PO	- PO works through product backlog - SD perform planning poker			
5	Definition of Done	3	Tobi + Sara	agree on project specific DoD			
6	Sprint Goal	2	Tobi + Sara	agree on sprint goal			
7							
8							
9							
10	Open Points	5	Everybody				
•	•	90					

Team Meeting Agenda "AMOS QAchat"

Date: 2023_05_03

ID	Topic	Time	Author	Description	Result	Decision	Responsible
1	Sprint Review	30	PO	Release Manager creates release candidate build PO walks through "awaiting review" tickets, probing SDs			
2	Sprint Release	5	PO	- PO decides release - Release Manager creates release			
3	Sprint Retrospective	15	SM	- SM reviews the impediments - SM performs roll calls - Everyone answers happiness index - Review of Happiness index and standup emails			
4	Sprint Planning	30	PO	- PO works through product backlog - SD perform planning poker			
5	Stand up Emails	2	Tobi + Sara	please write your standup emails regularly		first standup email is sent by sunday evening	
7							
8							
_	Open Points	10	Everybody				
	·	92		· · · · · · · · · · · · · · · · · · ·	•	_	

5

Team Meeting Agenda "AMOS QAchat"

ID	Topic	Time	Author	Description	Result	Decision	Responsible
1	Sprint Review	30	РО	Release Manager creates release candidate build PO walks through "awaiting review" tickets, probing SDs		Method 2: semantic search a Google Open Source model	
2	Sprint Release	5	РО	- PO decides release - Release Manager creates release		released	
3	Sprint Retrospective	15	SM	- SM reviews the impediments - SM performs roll calls - Everyone answers happiness index - Review of Happiness index and standup emails		see imp board	
4	Sprint Planning	30	PO	- PO works through product backlog - SD perform planning poker			
5	Get to know each other	5	Vukica				
6	Project Setup	5	Tobi	 programming language and coding guidelines tools branching and merging 		issue is in progress	
7							
8							
9							
10	Open Points	5	Everybody				
		95			-		

Team Meeting Agenda 2023_04_24_QAware

Team Meeting Agenda "AMOS QAchat"

Responsible ID Topic Time Author Description Result Decision 1 getting to know each other 5 introduce new team members access to Slack access to Confluence 2 organization 20 - access to GDrive / Google Cloud NDA is a problem, work in progress - documents mostly in german - chatbot has no specific language talk about new advances in LLMs and requirement 20 3 project topics project requirements 5 6 7 8 10

Team Meeting Agenda "AMOS QAchat"

ID Topic Time Author Description Result Decision Responsible shared folder with planning documents Github Repo 5 Deliverables 1 Ensure that everybody has access - Happiness index tool 2 initialize planning documents 10 Deliverables insert base data, agree on role assignments 3 Agree on team contract 10 Deliverables submit as part of planning documents What are your first impressions from yesterday? (good, bad, suggestions, concerns, ...)
What documents / workspaces do we have (from Sebastian and Prof. Discussion about first project 4 impressions 10 Tobi Riehle)? What experiences do you have (regarding topics that might be needed in this project) ? How do you work (Timeslot, Tools, ...) ? 5 Getting to know each other 10 Tobi 6 Slack 10 Tobi Do we want to create our own Slack channel? 7 Homework 30 Tobi Go through Homework 1 tasks 8 Fill in happiness index 5 Deliverables counts as sprint 0, closes at midnight 9 10

90

Team Meeting Agenda 2023_04_18_QAware

Team Meeting Agenda "AMOS QAchat"

ID Topic Time Author Description Result Decision Responsible 1 getting to know each other 10 short introduction of each person go through project definition from Sebastian - look at methods Sebastian already Sebastian provides us the presented 2 project introduction 40 collected in progress, discuss results in next meeting, Sebastian will invite us to the Google discuss access to Slack, Confluence, Cloud 3 organization 20 GDrive and processing resources 5 6 7 8 10 70

Team Meeting Agenda Template

Team Meeting Agenda "AMOS QAchat"

Date: tbd

ID	Topic	Time	Author	Description	Result	Decision	Responsible
1	Sprint Review	30	PO	- Release Manager creates release candidate build - PO walks through "awaiting review" tickets, probing SDs			
2	Sprint Release	5	PO	- PO decides release - Release Manager creates release			
3	Sprint Retrospective	15	SM	- SM reviews the impediments - SM performs roll calls - Everyone answers happiness index - Review of Happiness index and standup emails			
4	Sprint Planning	30	PO	- PO works through product backlog - SD perform planning poker			
5							
6							
7							
8							
9							
10	Open Points	10	Everybody				
•	•	90			•		

Checklists Sprint-Tasks

Role	Tasks
Everyone	participate in lecture
	participate in team meeting
	write 2 stand up emails
PO	update feature board
	update planning documents
SD	work on issues
	update bill of materials
014	and the Second S
SM	update impediments backlog
Release Manager	ensure that sprint release candidate is tagged
Treicase Mariager	Cristic that sprint release candidate is tagged
	I

Checklists Pre-Team-Meeting

Role	Tasks
PO	create feature board screenshot
	create planning document PDF
SD	push current work
	update assigned issues
SM	create impediments backlog screenshot
Release Manager	tag sprint release candidate
	l .

Checklists Team-Meeting (POs)

Meeting Preparation	ensure product backlog is ready coordinate with Release Manager	
Sprint Review		
	ask Release Manager to build release candidate	
	walk through "Awaiting review" issues	
	- ask SD to demo item under review	
	- chech fulfillment of acceptance and DoD criteria	Product Owner 1
	- move item to feature archive (add label "Real Size = Y") or move issue to product backlog	
Sprint Release	decide whether release candidate should be released coordinate with Release Manager	
Sprint Retrospective		
	SM TODOs answer Happiness Index	Scrum Master
Sprint Planning		
	reprioritize product backlog items start by most important backlog item and ask SDs to estimate the story points, do until SDs have enough work story points = {0, 1, 2, 3, 5, 8, 13}	Product Owner 2

Checklists Team-Meeting (POs)

Meeting After-work	
	update planning documents
	update feature board

Checklists Issue-Creation

Steps to create a Github Issue:

1. Go here: <u>Issues · amosproj/amos2023ss03-qachat (github.com)</u>

2. click "New issue"

3. select corret template

4. write a title and description that follow the INVEST criteria

5. select the correct project

6. select the correct milestone (optional)

7. add correct labels

8. add Assignees (optional)

9. click "Submit new issue"

10. go here:

11. move issue to Product Backlog

12. open issue and set corresponding priority

Independent, Negotiable, Valuable, Estimatable, Small, Testable

"amos2023ss03-feature-board"

"sprint-{XY}"

"Est. size = X" and issue type

amos2023ss03-feature-board (github.com)