Project Name	AI Driven Testing
Online team meeting	https://fau.zoom.us/j/69553438847?pwd=VHGm0oOZ2KvPbbhrGsmX83d4rAuuaT.1
Production system (if any)	...
Test system (if any)	...
GitHub repository	https://github.com/amosproj/amos2025ss04-ai-driven-testing
GitHub feature board	https://github.com/orgs/amosproj/projects/82/views/2
GitHub imp-squared backlog	https://github.com/orgs/amosproj/projects/86/views/1
Planning Poker Link	https://pokerplanning.org/room/05e2b4ba-b452-4c29-8ba0-e9ae23005ce0
Team T-shirt (white)	https://www.shirtinator.ch/s/gyMoSd27QOSlIB0wUYQ7XA
Team T-shirt (black)	https://www.shirtinator.ch/s/-GuNOvW5Q2qjHFDZrYILpA
black link again since it didnt work for some	https://www.shirtinator.ch/t-shirts/gestalten/t-shirt-bedrucken#/load/share/f86b8d3a-f5b9-436a-a31c-50d9ad820ba4
Additional materials	...
Team maling list	oss-amos-proj4@lists.fau.de

Last Name	First Name	GitHub User Name	Email Address
Brüggemann	Jonas	JonasBrue	jonas.brueggemann@campus.tu-berlin.de
Clicqué	Lennard	OlafVanHuusen	lennard.clicque@fau.de
Hasse	Lisabeth	PeppermintCoding123	lisabeth.hasse@fau.de
Heidkamp	Tessa	theidkamp	tessa.v.heidkamp@campus.tu-berlin.de
Krug	Maximilian	HaruspexSan	maximilian.krug@fau.de
Lang	Felix	xilef45	felix.l.lang@fau.de
Lorenz	Alexander	Hydraneut	alexander.lorenz@fau.de
Parameswaran	Biranavan	Biranavan-Parameswaran	parameswaran@campus.tu-berlin.de
Takale	Aditi Vishwas	adititakale01	adititakale01@gmail.com
Alsultan	Moaiad	Moaiadsu	m.alhmadhalsultan@campus.tu-berlin.de

		Product Owner						
#	Meeting Day	Review	Planning	Software Developer	Release Manager	Scrum Master	First-Level-Support :)	Comment
1	2025-04-16	both	both	all other	none	Felix	Felix	
2	2025-04-23	both	Max	all other	Max	Felix	Felix	
3	2025-04-30	Max	Alex	all other	Alex	Felix	Felix	
4	2025-05-07	Alex	Max	all other	Jonas	Felix	Felix	Build process review
5	2025-05-14	Max	Alex	all other	Lennard	Felix	Felix	
6	2025-05-21	Alex	Max	all other	Lisabeth	Felix	Felix	
7	2025-05-28	Max	Alex	all other	Tessa	Felix	Felix	Mid-term due
8	2025-06-04	Alex	Max	all other	Max	Felix	Felix	
9	2025-06-11	Max	Alex	all other	Alexander	Felix	Felix	
10	2025-06-18	Alex	Max	all other	Biranavan	Felix	Felix	
11	2025-06-25	Max	Alex	all other	Aditi Vishwas	Felix	Felix	
12	2025-07-02	Alex	Max	all other	Moaiad	Felix	Felix	
13	2025-07-09	Max	Alex	all other	Jonas	Felix	Felix	
14	2025-07-16			all other	Lennard	Felix	Felix	Demo day!
Product owners, software developers, and Scurm Master are set and ideally don't change over time; the critical part is the Release Manager role you need to define here								

	Sprint11								Sprint12						
	Mittwoch	**Donnerstag**	**Freitag**	**Samstag**	**Sonntag**	**Montag**	**Dienstag**	**Mittwoch**	**Donnerstag**	**Freitag**	**Samstag**	**Sonntag**	**Montag**	**Dienstag**
Jonas	full day	full day	no	no	no	no	no	full day						
Lennard														
Lisabeth		vielleicht zwischendurch	quasi den ganzen	Teilweise Erhältlich	-	möglich zwischen	ab 17 Uhr							
Tessa														
Biranavan														
Aditi Vishwas														
Moaiad														

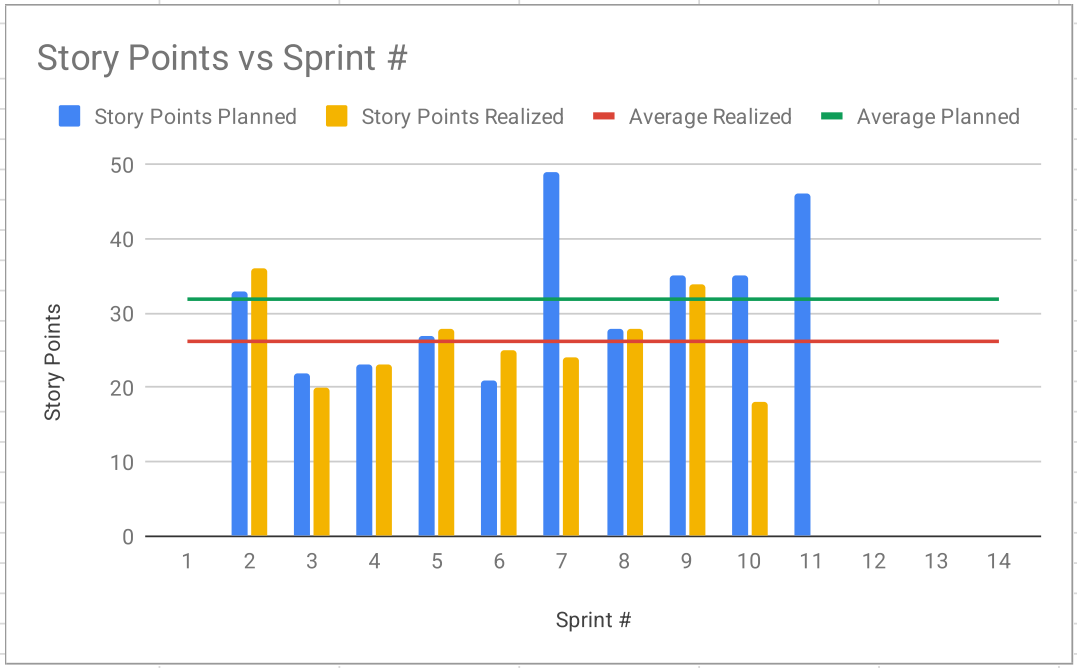
Goals	Interpersonal relationship objectives: “To foster an atmosphere of mutual respect and learning, creating a team-spirit”
	Main goal is to create a satisfiying project that makes Us, the IP(Industry Partner) and open-source community happy
Meeting norms	Documentation in english and meeting language in German
	Start on time
	Be Polite
	Purpose: Clearly define the goal of the meeting. Preparation: Ensure all participants are well-informed and ready to contribute. Participation: Encourage active engagement from all attendees. Process: Organize the meeting structure and agenda effectively. Progress: Monitor the meeting's progress and ensure it stays on track.
Working norms	Leave the code better than you found it (The Boy Scout Rule)
	Keep it Simple, Stupid (KISS)
Coordination norms	Felix will do the retros + keeping track of meetings
	Alex and Max will take care of the assignments (Backlog Items)
Communication norms	We check Discord at least every day
Consideration norms	Communicate Conflict in Team-Meeting. Help from Felix or Jovana to solve conflicts.
	Respect, active listening, tolerance
Cont. improvement norms	Experimentation spirit and feedback culture
	Burn-Down charts as process tracking
Rewards	Appreciation and praise
Sanctions	Wear the ducky tie
	Post a cute/funny pic of a pet (or similar)
Signatures	
Scrum Master	Felix Lang
Product owner	Maximilian Krug
Product owner	Alexander Lorenz
Software developer	Mohammad Moaiad Alhamdh Alsultan (Moaiad Alsultan)
Software developer	Jonas Brüggemann
Software developer	Lennard Clicqué
Software developer	Biranavan Parameswaran (Biri)
Software developer	Lisabeth Hasse
Software developer	Tessa Heidkamp
Software developer	Aditi Vishwas Takale

Product Vision	Project Mission
Product Vision We are transforming the landscape of software testing through intelligent, AI-powered automation. Our vision is a future where testing is no longer a bottleneck but a seamless, continuous, and reliable part of the development process. By empowering developers and testers with AI tools that autonomously generate and maintain test cases, we free them from generating the same test cases over and over to instead focus on creative problem-solving and strategic innovation. Our solution supports a future of scalable, secure, and locally controlled quality assurance, driving the next evolution in software development. We invision the role of the programmer to become a curator and innovator of AI generated Code.	Product Mission Deliver a minimum viable product (MVP) of an AI-powered test generation assistant that interacts effectively with real-world software projects. This includes laying the empirical and research groundwork for the idea. From this research we will conclude a MVP, that can analyze simple Python and C++ programs and produce corresponding test cases. Operated through a user-friendly chat interface. The MVP will showcase initial integration with widely used open-source testing frameworks such as Robot Framework, proving the viability of AI-assisted test automation in practical, everyday development environments.

Term	Definition
LLM	Large language model
LLM Input	User Input into the LLM
LLM Output	Response of the LLM to the Input
LLM System Prompt	System message sent (this is different from the LLM Input)
Temperature	gradient how "creative" the LLM behaves
Interface Script/ LLM factory	Backbone script of the project to start, end and use the LLM containers
Container	Docker container, (not kaniko os something else)
IP	Industry Partner
Sprint	agile (Amos) sprint with a duration of 2 weeks
CI	GitHub workflows as Continuouse Integration assistent
Wiki	Documentation in the Github repos wiki (not Wikipedia)
Laptop	Personal device to run the code (nothing fancy standard device) TODO add specs

Sprint #	Sprint goal
1	None
2	None
3	None
4	Laying foundational architecture groundwork
5	Initalize future development area
6	Enhance user value by metricization
7	Preparing for Midproject review
8	Expanding Modularity and advancing metricization / Refactoring
9	Enhancing accuracy of LLM return
10	Advancing Usability and LLM response rsatistics
11	Design and Development for own LLM
12	Create CI Usecase and user value
13	Prepare for demo day
14	Last touches before the finally
15	-/- (only winter term)

Sprint #	Story Points Planned	Story Points Realized
1		
2	33	36
3	22	20
4	23	23
5	27	28
6	21	25
7	49	24
8	28	28
9	35	34
10	35	18
11	46	
12		
13		
14		
		PLEASE CREATE THE VELOCITY CHART ON A NEW TAB USING THE DATA FROM THIS TAB



Sprint	Average Realized	Average Planned
1	26.22222222	31.9
2	26.22222222	31.9
3	26.22222222	31.9
4	26.22222222	31.9
5	26.22222222	31.9
6	26.22222222	31.9
7	26.22222222	31.9
8	26.22222222	31.9
9	26.22222222	31.9
10	26.22222222	31.9
11	26.22222222	31.9
12	26.22222222	31.9
13	26.22222222	31.9
14	26.22222222	31.9

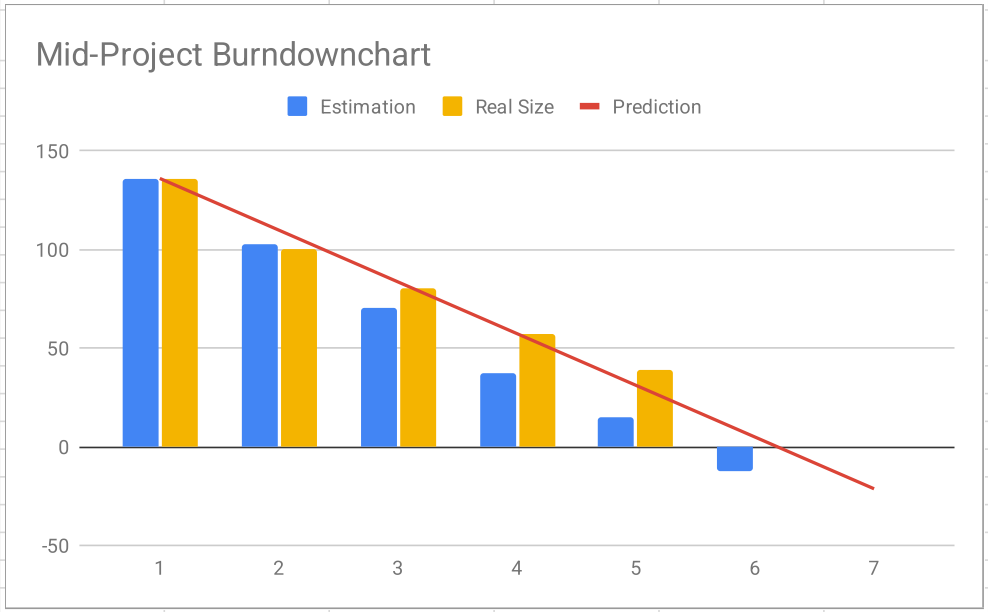
Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release						
Total			136	136	132	
Sprints						
1			0	136	0	132
2			33	103	36	132
3			33	70	20	96
4			22	37	23	76
5			27	15	28	53
6			21	-12	25	25
7						0
8						0
9						0
10						0
11						0
12						0
13						0
14						0
15						0
Finish						0
Features						
1						
		(none since we didnt meet with the IP yet)				
2						
		Write .py script to interact with the LLM 3	3		3	
		Reaserch LLM 5	5		5	
		Research Deepcoder/Phi4-Mini	5		5	
		Reaserch LLM 4	5		5	
		Reaserch LLM 2	5		8	

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
		Create initial Architecture Documentation	2		2	
		Reaserch LLM 1	5		3	
		Write .py script to interact with the LLM 1	3		5	
3						
		Continue to Maintain the Architecture-Document	3		3	
		Write .py script to interact with the LLM 2	3		3	
		Research Code Complexity	5		5	
		Create Python test cases	3		1	
		Start Bill of Material	1		1	
		Continue to Maintain Bill of Materials	1		1	
		Write .py script to interact with the LLM 5	3		3	
		Write .py script to interact with the LLM 4	3		3	
4						
		Continue to Maintain Bill of Materials	1		1	
		Unify the python interface	3		3	
		initialize ReadMe	2		1	
		Research AI-Model Benchmark	3		3	
		Build the first Benchmarking tests	3		3	
		make CI-Pipeline	5		8	
		Continue to Maintain the Architecture-Document	3		2	
		Set up Branchmanagment	3		2	
5						
		Add Modul Interface	5		5	
		Research Ollama	5		3	
		Test docker performance	3		5	
		Initialize API	5		5	
		Build process video	3		3	
		Initialize Frontend	5		3	
		Continue to Maintain Bill of Materials	1		1	
		Make metrics.py into its own modul			3	
6						
		Write .py script to start docker containers	3		3	
		Show POs how the Project works	3		2	
		Research: Spell checker	3		3	
		Onboard small LLM	1		1	
		Frontend Make User enter prompt and source code	5		8	
		Module: Analyze context size	3		5	
		Connect API to Frontend	3		3	

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Leftover						

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Ideal Case	Real Case



Sprint	Planned progress	
1	136	136
2	109.7777778	100
3	83.55555556	80
4	57.33333333	57
5	31.11111111	39
6	4.888888889	
7	-21.33333333	

ca. 30 pro sprint

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release						
Total		estimation ca. 30 per sprint	235	235		
Sprints						
7			49	235	24	235
8			28	186	28	211
9			35	158	34	183
10			35	123	18	149
11			46	88	0	131
12			6	42	0	131
13			25	36	0	131
14			11	11	0	131
Features						
7						
		Module. Evaluate LLM performance	3			
		Extract Code from Input/Output	3		2	
		Research/Implement How to include whole project	5		13	
		Module: Code Complexity MCC	5			
		Set up Docker compose	5		5	
		Unify build process	5			
		Bill of Material	1		1	
		Architecture Document	3		3	
		Module CCC	5			
		Initialize user, (technical) design, and build/deploy documentation	3			
		Refactoring: unify payload to json	5			
		Module: CMT Code Complexity	3			
		Set prerequistists for Modulel	3			
8						
		Fix: keep models	2		2	
		Refactoring: unify payload to json	5		5	
		Bug-Fix: Update Extract Code from Input/Output #128	1		1	
		Module CCC	5		5	
		Module. Evaluate LLM performance	3		5	
		Unify build process	5		3	
		Onboard and Test new LLM	2		2	

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
		Module: Code Complexity MCC	5		5	
9						
		Onboard and Test new LLM	2		2	
		Module: Add configurable outputs	3		3	
		Research: Befits of chaining methods	3		3	
		Test current models for consitency	3		2	
		Module: LLM testing of Code understandability, make LLM describe the code, let the same LLM (with no history) build the code from the description -> see if code passes the Unit tests.	3		3	
		Research: How to measure code coverage with tools	3		3	
		Frontend: make modules togglable in UI	5			
		Frontend: Diff viewer between original and tested source	5		5	
		Module: external research	5		8	
		Initialize user, (technical) design, and build/deploy documentation	3		5	
10						
		Onboard and Test new LLM	3		2	
		Enable Output to Reinput for LLM	5			
		Module: Check output for code coverage of the tests	5			
		Clean up output code	5			
		Research: can we run the models in the CI	3		3	
		Module: Show dependency hierarchy of code by logic flow	3		3	
		Module: execute Tests	5			
		Research: How to train LLM	3		5	
		Research: How to finetune LLM	3		5	
11						
		Research and Run first project on HPC	3			
		Module: execute Tests	5			
		Module: enable reinput for LLM	5			
		Module: Detect redundant/duplicate test cases	3			

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
		Acquire Dataset: Unit-Tests	3			
		Module: Check output for code coverage of the tests	5			
		Clean up output code	5			
		Acquire Dataset: Python-Tests	3			
		Use metrics to compare 1b, 3b, 7b and maybe 14b models	8			
		Set prerequistists for Modulel	3			
		Onboard and Test new LLM	3			
		Output exporter (as zip, json, http etc..)	3			
12						
	A	Train Model on HPC - using the datasets and else				
	M	Homework: Prepare Demo and create 3 Usecases	2			
	M	Homework: Create Demo Day slide	1			
	M	Homework: Create Demo Day video	3			
	A	Refactor the Code	3			
	A	Clean the repo	2			
13						
	M					
	M	Clean the wiki	2			
	M	Homework: Overwork the Bill of Materials	1			
	M	Homework: Overwork the Architectuer Document	3			
	A	Refactor the Code	3			
	A	Clean the repo	2			
	A	Eveluate the performance of the models with and without the modules	3			
14						
	M	Homework: Clean the repo	2			
	M	Homework: Finish documentation	2			
	M	Homework: Export Documentation (Wiki) as PDF	2			
	A					
	A					
	A	Homework: Finalize user, (technical) design, and build/deploy documentation	5			

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Leftover						
		Frontend: Diff viewer between original and tested source	5			
		Module: external research	5			
		Set prerequistists for Modulel	3			
		Initialize user, (technical) design, and build/deploy documentation	3			
9						
		Onboard new LLM				
		Research chaining				
10						
11						
		Research: test readability score (Flesch/Kincaid)	3			
			3			
		Module: Auto-group similar test cases into suites	5			
		Module: Add security analyzer module for generated code	3			
		Module: Map language to optimal model with fallback support	3			
12						
		Module: Measure test readability score (Flesch/Kincaid)	5			
		Module: Auto-split large files into units for test generation	3			
		Research: different types of software test	3			
13						
		Improve Usability of the frontend	5			
		Module: Detect Edgecase accuracy of LLM research				
Dev items						

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

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Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

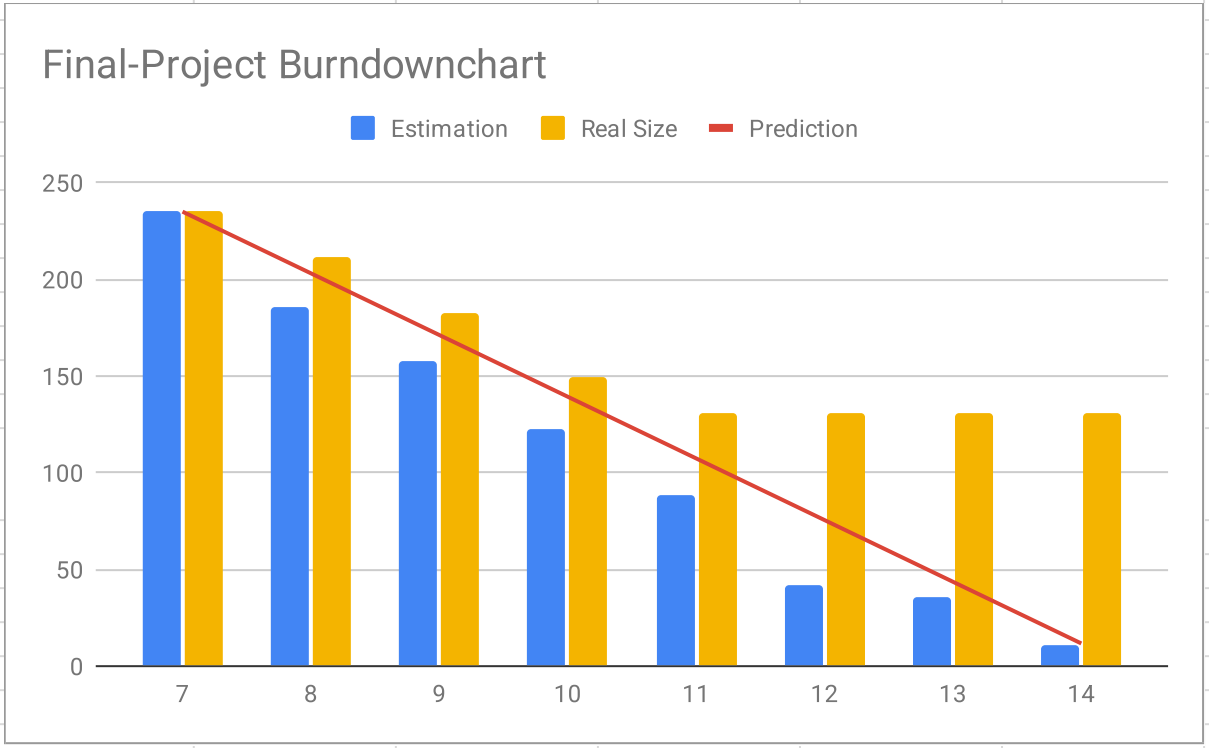
Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining



Sprint	Prediction
7	235
8	203.1
9	171.2
10	139.3
11	107.4
12	75.5
13	43.6
14	11.7

Note: only the current sprints are accurate

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
1	# Definition of Done - [ ] document the results of your research - [ ] note if the LLM works or not - [ ] add documentation to the LLM section of the wiki - [ ] link any sources you found, preferably scientific	Project builds, deploys, and tests successfully Project is improved compared to last release Sprint release notes have been written Wiki has been updated with new knowledge	Release passes accaptence test Functional and non functional requirements are met Requirements and Use cases are covered User documentation has been updated Design documentation has been updated
2	# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki		

Type	Link / reference

#	Context	Name	Version	License	Comment
	Python Version for running the main script	Python V	3.11	Python Software Foundation License Version 2	
	Running Ollama via Docker	Docker	28.1.1	Apache License, Version 2.0.	
	Ollama enables running LLMs easily	Ollama	0.6.8	MIT License	
	Running Qwen2.5-Coder via Ollama	Qwen2.5-coder	qwen2.5-coder:3b-instruct-q8_0	Qwen Research License (3B Model only), Apache License 2.0 (others)	
	Running Mistral via Ollama	Mistral	mistral:7b-instruct-v0.3-q3_K_M	Apache License, Version 2.0.	
	Running Deepseek-Coder via Ollama	Deepseek-Coder	deepseek-coder:6.7b-instruct-q3_K_M	Deepseek License Agreement	only used for testing
	Running Phi4-Mini via Ollama	Phi4-Mini	phi4-mini:3.8b-q4_K_M	MIT License	
	Running Gemma via Ollama	Gemma	gemma3:4b-it-q4_K_M	Gemma Terms of Use	only used for testing
	Running Tinyllama via Ollama	Tinyllama	tinyllama:1.1b	Apache License, Version 2.0.	
	Running Qwen3 via Ollama	Qwen3	qwen3:4b-q4_K_M	Apache License, Version 2.0.	
	Running Smollm2 via Ollama	Smollm2	smollm2:360m	Apache License, Version 2.0.	
	mainly used language	python		PSF License	
	devDependency	pytest	8.3.1	MIT License	used for unit-tests
	Used python library	docker	7.1.0	Apache License, Version 2.0.	
	Used python library	requests	2.32.2	Apache License, Version 2.0.	
	Used python library	tqdm	4.67.1	MIT License	
	Used python library	numpy	1.22.0	BSD License	
	Used python library	pandas	1.3.0	BSD License	
	Used python library	fastapi	0.115.1	MIT License	
	Used python library	uvicorn[standard]	0.34.0	BSD License	
	Used python library	transformers	4.52.2	Apache License, Version 2.0.	
	Used python library	langchain	0.3.25	MIT License	
	environment management	conda	25.5.0	BSD-3 License	
	Distribution channel	conda-forge	25.5.0	BSD-3 License	
	frontend	react	19.1.0	MIT License	
	frontend	react-dom	19.1.0	MIT License	
	frontend	react-scripts	5.0.1	MIT License	
	frontend	typescript	4.9.5	Apache License, Version 2.0.	
	frontend	web-vitals	2.1.4	Apache License, Version 2.0.	
	Used for Code formatting	Black	25.1.0	MIT License	
	Used for Linting	flake8	7.0.0	MIT License	

#	Context	Name	Version	License	Comment

Last Name	First Name	Value					
Brüggemann	**Jonas**	5		**5.00**	**OK**		
Clicqué	**Lennard**	5					
Hasse	**Lisabeth**	5					
Heidkamp	**Tessa**	5					
Parameswaran	**Biranavan**	5		0	No size		
Takale	**Aditi Vishwas**	5		1	Trivial size		
				2	Small size		
				3	Medium size		
				5	Large size		
				8	Very large size		
				13	Too large (size)		
How to play planning poker							
1. Everyone type their number into their value field, don't hit return yet							
2. Someone, perhaps a product owner, count down 3.. 2.. 1..							
3. Then, everyone hit return to submit their value							

Sprint	Name	Description				
7		Complete	User Story	Notes	Acceptance Criteria	Definition of Done
	Unify requirements.txt files					
	Frontend: Display LLM result in Textbox					
	Onboard small model 1b					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Prune models for only MIT license Models					
	Unify payload to Json					
	Module: Evaluate LLM performance					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Module: Implement System property findings					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Add multiple payload APIs					
8						
	Onboard and Test new LLM					
	Module: Add security analyzer module for generated code					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki

	Module: Add configurable timeouts for LLM generation					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Module: Code Complexity: Complexity Measurement Tool (CMT)					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Module: Code Complexity: CM					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Frontend: make modules togglable in UI					
	Module: Detect redundant/duplicate test cases					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Output exporter (as zip, json, http etc..)					
9						
	Research: test readability score (Flesch/Kincaid)					
	Module: Detect Edgecase accuracy of LLM research					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Onboard and Test new LLM					

	Module: Map language to optimal model with fallback support					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Module: Allow chaining outputs between models					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Research: Befits of chaining methods					
	Use metrics to compare 1b, 3b, 7b and maybe 14b models					
	Research: How to measure code coverage with tools					
10						
	Onboard and Test new LLM					
	Module: Measure test readability score (Flesch/Kincaid)					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Module: Check output for code coverage of the tests					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Module: Flaky Test Identifier: Detect and flag non-deterministic/generated tests					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki

	Module: Show dependency hierarchy of code by logic flow					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Try HPC to run the thing and test a larger model 50b+ parameters					
	Module: Auto-split large files into units for test generation					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Research: how to train/ enhance own LLM on HPC					
11						
	Onboard and Test new LLM					
	Use HPC to train our own LLM					
	Module: Auto-group similar test cases into suites					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Clean the repo					

	Module: LLM testing of Code understandability, make LLM describe the code, let the same LLM (with no history) build the code from the description -> see if code passes the Unit tests.					# Definition of Done (DoD) Checklist - [ ] Code is tested - [ ] Code is reviewed by a peer - [ ] Code is merged into dev (without breaking) - [ ] Code is Documented in the Wiki
	Test current models for output consistency (deterministic)					
	Frontend: Diff viewer between original and tested source					
12						
	Research: different types of software test					
	CI: create Docker CI for running everything in CI					
	Research: can we run the models in the CI					
	Eveluate the performance of the models with and without the modules					
	Placeholder					
13						

	Ci: Create a CI flow that creates the uni tests and provides them as unit tests					
	Improve Usability of the frontend					
	Prepare Demo and create 3 Usecases					
	Clean the wiki					
	Overwork the Bill of Materials					
	Overwork the Architectuer Document					
	Refactor the Code					
	Placeholder					
14						
	Clean the repo					
	Finish documentation					
	Export Documentation (Wiki) as PDF					
	Create Demo Day slide					
	Create Demo Day video					
	Finalize user, (technical) design, and build/deploy documentation					

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