AMOS - Planning Document (Proj 4)

Project Data

Project Name	Al 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/gyMoSd27QOSIIB0wUYQ7XA
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

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Project Team

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

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Role Assignments

			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		Felix	Felix	
14	2025-07-16			all other		Felix	Felix	Demo day!
roduc	t owners, software	developers, and S	curm Master are set and ideal	lly don't change over time; the	critical part is the Releas	e Manager role you need	to define here	
					T	· · ·		

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Team Contract

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.
M/a white as to a word	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)
Coordination norms	Keep it Simple, Stupid (KISS)
Coordination norms	Felix will do the retros + keeping track of meetings
Compressionations to a manage	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

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Product Goal

Product Vision Project Mission Product Vision Product Mission We are transforming the landscape of software testing through intelligent, Al-powered Deliver a minimum viable product (MVP) of an Al-powered test generation assistant that interacts effectively with real-world software projects. This includes laying the automation. 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 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 corresponding test cases. Operated through a user-friendly chat interface. The MVP and testers with AI tools that autonomously generate and maintain test cases, we free will showcase initial integration with widely used open-source testing frameworks such as Robot Framework, proving the viability of Al-assisted test automation in 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, practical, everyday development environments. 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.

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Product Glossary

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

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Sprint Goals

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)

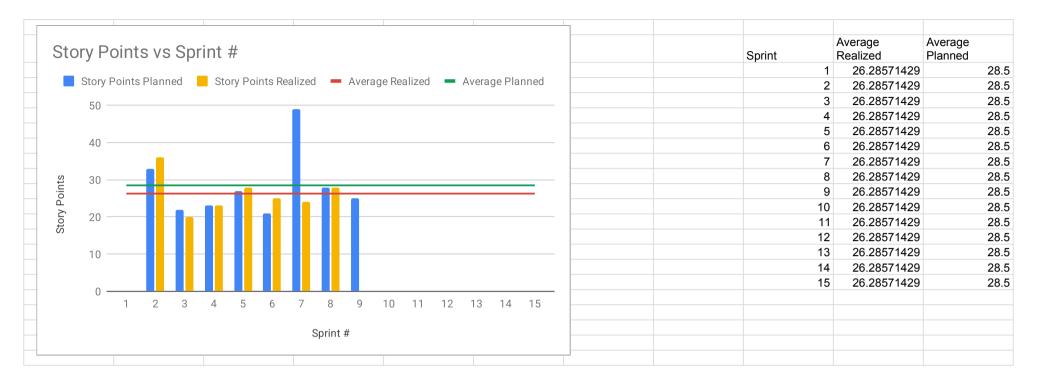
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Velocity Tracking

Sprint #	Story Points Planned	Story Points Realized
1		
2	33	36
3	22	
4	23	20 23
5	27	28
6	21	28 25
7	49	
8	28	24 28
9	25	
10		
11		
12		
13		
14		
15		
		PLEASE CREATE THE VELOCITY CHART ON A NEW TAB USING THE DATA FROM THIS TAB

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Velocity chart



Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release	<u> </u>					
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
Feature	s					
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	

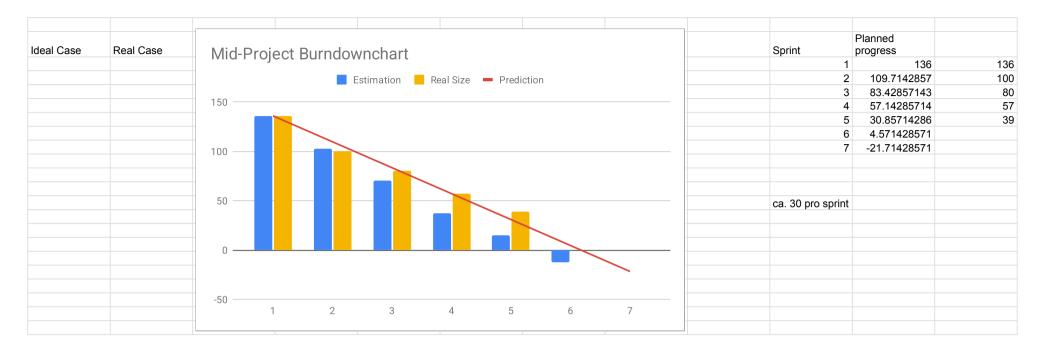
Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
		Create initial Architecture Documentation	2		2	
		Reaserch LLM 1	5		3	
		Write .py script to interact with the LLM 1	3		5	
3						
		Continue to Maintain the Architecture-Document	3		3	
		Write .py script to interact with the 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 Al-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	
		To at the already to enforce and a			-	
		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	r					

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
		PLEASE CREATE THE BURNDOWN CHART ON A NEW TAB USING THE DATA FR	OM THIS TAR			

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Mid-Project Burndown chart



Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release	9					
Total		estimation ca. 30 per sprint	211	211		
Sprints						
7			49	211	24	211
8			28	162	28	187
9			25	134	0	159
10			25	109	20	159
11			22	84	15	139
12			24	62	10	124
13			23	38	7	114
14			15	15	0	107
Feature	es					
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			
		Module: Add configurable outputs	3			
		Research: Befits of chaining methods	3			
		Test current models for consitency	3			
		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			
		Research: How to measure code coverage with tools	3			
		Frontend: make modules togglable in UI	5			
		Output exporter (as zip, json, http etc)	3			
		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			
		3	-			
10						
		Onboard and Test new LLM	3			
		Module: Allow chaining outputs between models	3			
		Module: Check output for code coverage of the tests	3			
		Module: Flaky Test Identifier: Detect and flag non-deterministic/generated tests	5			
		Research: can we run the models in the CI	3			
		Module: Show dependency hierarchy of code by logic flow	3			
		Module: Detect Edgecase accuracy of LLM research	5			
		· · · · · · · · · · · · · · · · · · ·				
11						
		Use metrics to compare 1b, 3b, 7b and maybe 14b models	2			
		Research: test readability score (Flesch/Kincaid)	3			
		Module: Detect redundant/duplicate test cases	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			
		Research: how to train/ enhance own LLM on HPC	3			
12						

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
		Module: Measure test readability score (Flesch/Kincaid)	5			
		Use HPC to train our own LLM	5			
		Try HPC to run the thing and test a larger model 50b+ parameters	5			
		Module: Auto-split large files into units for test generation				
			3			
		Research: different types of software test	3			
		Eveluate the performance of the models with and without the modules	3			
13						
		Homework: Prepare Demo and create 3 Usecases	2			
		Clean the wiki	2			
		Homework: Overwork the Bill of Materials	1			
		Homework: Overwork the Architectuer Document	3			
		Refactor the Code	3			
		Clean the repo	2			
		Ci: Create a CI flow that creates the uni tests and provides them as unit tests	5			
		Improve Usability of the frontend	5			
14						
		Homework: Clean the repo	2			
		Homework: Finish documentation	2			
		Homework: Export Documentation (Wiki) as PDF	2			
		Homework: Create Demo Day slide	1			
		Homework: Create Demo Day video	3			
		Homework: Finalize user, (technical) design, and build/deploy documentation	5			
		nononona i maneo acci, (common) accign, ana camaracpic) accamismanci				
Leftove	r					
LCITOVCI	•	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			
		militalize user, (teermical) design, and build/deploy documentation	J			
	Sprint					
	9	Onboard new LLM				
	J	Research chaining				
		1.000aion onaming				

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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		I				

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

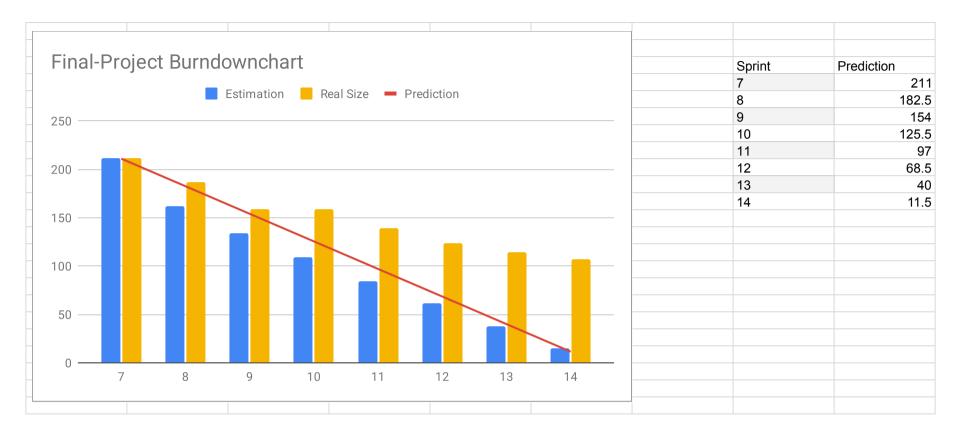
Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining

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

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

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Final Project Burndown chart



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Definition of Done

#	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		

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Documentation

Type	Link / reference

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Bill of Materials

Context	Name	Version	License	Comment
Python Version for running the			Python Software Foundation License	
main script	Python V	3.11	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			Qwen Research License (3B Model	
Ollama	Qwen2.5-coder	qwen2.5-coder:3b-instruct-q8_0	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.	
Truming mynama via Onama	Tirryilarria	urrynama. 1. 15	Apacite License, Version 2.0.	
Running Qwen3 via Ollama	Qwen3	qwen3:4b-q4_K_M	Apache License, Version 2.0.	
mainly used language	python		PSF License	
devDependency		8.3.1	MIT License	used for unit-tests
	pytest	7.1.0		used for utilit-tests
Used python library	docker	2.32.2	Apache License, Version 2.0.	
Used python library	requests		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	
	1.72			

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Planning Poker

Last Name	First Name	Value			
Brüggemann	Jonas	5			
Clicqué	Lennard	5	5.00	OK	
Hasse	Lisabeth	5	0.00		
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					
	to their value field, don't hit return ye	t			
2. Someone, perhaps a product	owner, count down 3 2 1				
3. Then, everyone hit return to su	ubmit their value				

Sprint	Name	Name Description			on	
7		Complete	User Story	Notes	Acceptance Criteria	Definition of Done
	Unify requirements.txt files	Complete	Osci Ciory	Notes	Officia	Definition of Bone
	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

		# Definition of Done (DoD) Checklist
	Module: Add	- [] Code is tested
	configurable	- [] Code is tested - [] Code is reviewed by a peer
	timeouts for	- [] Code is reviewed by a peer
	LLM generation	- [] Code is Documented in the Wiki
	Module: Code	# Definition of Done (DoD) Checklist
	Complexity:	- [] Code is tested
	Complexity	- [] Code is reviewed by a peer
	Measurement	- [] Code is merged into dev (without breaking)
	Tool (CMT)	- [] Code is Documented in the Wiki
		# Definition of Done (DoD) Checklist
		- [] Code is tested
		- [] Code is reviewed by a peer
	Module: Code	- [] Code is merged into dev (without breaking)
	Complexity: CM	- [] Code is Documented in the Wiki
	Frontend: make	
	modules	
	togglable in UI	
		# Definition of Done (DoD) Checklist
		- [] Code is tested
	Module: Detect	- [] Code is reviewed by a peer
	redundant/dupli	- [] Code is merged into dev (without breaking)
	cate test cases	- [] Code is Documented in the Wiki
	Output exporter	
	(as zip, json,	
	http etc)	
9		
	Research: test	
	readability	
	score	
	(Flesch/Kincaid)	
		# Definition of Done (DoD) Checklist
	Module: Detect	- [] Code is tested
	Edgecase	- [] Code is reviewed by a peer
	accuracy of	- [] Code is merged into dev (without breaking)
	LLM research	- [] 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/ge nerated 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 understandabilit y, 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	
13	Placeholder	
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	Ci: Create a CI			
	flow that			
	creates the uni			
	tests and			
	provides them			
	as unit tests			
	Improve			
	l la ability of the			
	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			
4.4	1 laceriolder			
14				
	Clean the repo			
	Finish			
	documentation			
	Export			
	Danimantation			
	Documentation			
	(Wiki) as PDF			
	Create Demo			
	Day slide			
	Create Demo			
	Day video			
	Finalize user,			
	(technical)			
	design, and			
	build/doploy			
	build/deploy			
	documentation			