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Project Data

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  fitHub feature board  fitHub repository  https://github.com/orgs/amosproj/projects/82/views/2  fitHub imp-squared backlog  Team T-shirt (white)  Team T-shirt (white)  Team T-shirt (white)  Team T-shirt (black)  black link again since it didnt  work for some  https://www.shirtinator.ch/s-GuNOvW5Q2qjHFDZrYILpA  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	Project Name	Al Driven Testing
Production 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  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		
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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
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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

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

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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

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Sprint Goals

Sprint #	Sprint goal
1	None
2	None
3	None
4	Laying foundational architecture groundwork
5	Enhance user value by metricization
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

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Velocity Tracking

Sprint #	Story Points Realized	
1		
2		33
3		
4		
5		
6		
7		
8		
9		
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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Mid-Project Release plan

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release	9					
Total			0	0		
Sprints						
1			0		0	0
2 3			0		0	0
			U	0	U	0
•••				0		0
Feature	es					
1						
_						
2						
3						
-						
		PLEASE CREATE THE BURNDOWN CHART ON A NEW TAB USING THE DATA	FROM THIS TAB			

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Final Project Release plan

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release	<b>B</b>					
Total			0	0		
Sprints						
-р						
1			0	0	0	0
2			0		0	0
3			0		0	0
				0		0
Feature	es					
1						
•						
2						
3						
J						
		PLEASE CREATE THE BURNDOWN CHART ON A NEW TAB USING THE DATA F	ROM THIS TAB			

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Definition of Done

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	# Definition of Done - [] document the results of your research - [] note if the LLM works or not	Project builds, deploys, and tests successfully Project is improved compared to last release Sprint release notes have been written	Release passes accaptence test Functional and non functional requirements are met Requirements and Use cases are covered
1	- [] add documentation to the LLM section of the wiki - [] link any sources you found, preferably scientific	Wiki has been updated with new knowledge	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 braking) - [] Code is Documented in the Wiki		

Type	Link / reference

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Bill of Materials

#	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	7.0.0	Apache License, Version 2.0.	
	Ollama enables running LLMs easily	Ollama		MIT License	
	Running Qwen2.5-Coder via Ollama	Qwen2.5-coder		Qwen Research for Qwen2.5-coder:3b, Apache License, Version 2.0 for all other sizes	
	Running Mistral via Ollama	Mistral		Apache License, Version 2.0.	
	Running Deepseek-Coder via Ollama	Deepseek-Coder		Deepseek License Agreement	only used for testing
	Running Phi4-Mini via Ollama	Phi4-Mini		MIT License	
	devDependency	pytest	7.4.0	MIT License	used for unit-tests

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Planning Poker

Last Name	First Name	Value				
Brüggemann	Jonas	5				
Clicqué	Lennard	5		5.00	OK	
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						
Everyone type their number into their value field, don't hit return yet		et				
2. Someone, perhaps a product	owner, count down 3 2 1					
3. Then, everyone hit return to s	ubmit their value					