amos2024ws04-planning-document Project Data

Project Name	Mumbi - Personalized Playtime
Online team meeting	https://fau.zoom-x.de/j/67240113065
Production system (if any)	
Test system (if any)	
CitUub rangaitam	https://aithub.com/amagagaga/uga/4 paragralized play
GitHub repository	https://github.com/amosproj/amos2024ws04-personalized-play
GitHub feature board	https://github.com/orgs/amosproj/projects/73/views/2
GitHub imp-squared backlog	https://github.com/orgs/amosproj/projects/77
Team T-shirt (white)	https://www.shirtinator.de/s/43fUAI0NT56hWjNjoYQQqg
Team T-shirt (black)	https://www.shirtinator.de/s/JQ9cmxYyQ7KcEvpXKljO-w
Additional materials	Shared Drive Link: https://drive.google.com/drive/folders/1fMtj2E90bbCLx5iGJj6nXyAKku2Q0npP?usp=sharing
	Shared Miro Board: https://miro.
	com/welcome/TzdHM3o2OG1VNG92cEhOQU04TjBFZXNUZ2xjcFk4ZVFONHdqckdHRHRJVmVMSEJwUGNIUHRWWVN3VmVESGY0
	Q3wzNDU4NzY0NTg1NzM0NTkxOTUxfDE=?share_link_id=817734118424
Team maling list	oss-amos-proj4@lists.fau.de
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amos2024ws04-planning-document Project Team

Last Name	First Name	GitHub User Name	Email Address
Bennani	Abderrahmane	AbderrahmaneBennani	Abderrahmane.Bennani@fau.de
Hirschbeck	Anna	AnnaH3003	anna.hirschbeck@fau.de
Pervana	Sara	saramakishti	sara.pervana@campus.tu-berlin.de
Demirhan	Kübra	kuebrademirhan	kuebra.demirhan@fau.de
Faldu	Rushi Bhupendrabhai	Rushi-faldu	rushifaldu1@gmail.com
Baier	Frederick	frederickbaier	f.baier@campus.tu-berlin.de
Samarakoon	Shanaka Anuradha	shanaka95	shanaka95@gmail.com
Rudani	Vivek	vivekrudani	vivekrudani148@gmail.com
Vadaliya	Preet	preetvadaliya	preet.vadaliya@fau.de
Bhesaniya	Yash	yashbhesaniya	yash.bhesaniya@fau.de

amos2024ws04-planning-document Role Assignments

#	Meeting Day	Product Owners	Software Developer	Release Manager	Scrum Master	Comment
1	2024-10-16	N/A	Everyone else	N/A	Anna Hirschbeck	
2	2024-10-23	Sara Pervana	Everyone else		Anna Hirschbeck	
3	2024-10-30	Sara, Rushi	Everyone else	Preet Vadaliya	Anna Hirschbeck	
4	2024-11-06	Sara, Rushi	Everyone else	Shanaka Anuradha Samarakoon	Anna Hirschbeck	
5	2024-11-13	Sara, Rushi	Everyone else	N/A	Anna Hirschbeck	
6	2024-11-20	Sara, Rushi	Everyone else	Abderrahmane Bennani	Anna Hirschbeck	
7	2024-11-27	Sara, Rushi	Everyone else	Vivek Rudani	Anna Hirschbeck	Mid-term due
8	2024-12-04	Sara, Rushi	Everyone else	kubra Demirhan	Anna Hirschbeck	
9	2024-12-11	Sara, Rushi	Everyone else	Frederick	Anna Hirschbeck	
10	2024-12-18	Sara, Rushi	Everyone else	Shanaka Anuradha Samarakoon	Anna Hirschbeck	
11	2025-01-08	Sara, Rushi	Everyone else		Anna Hirschbeck	
12	2025-01-15	Sara, Rushi	Everyone else		Anna Hirschbeck	
13	2025-01-22	Sara, Rushi	Everyone else		Anna Hirschbeck	
14	2025-01-29	Sara, Rushi	Everyone else		Anna Hirschbeck	Demo day!
15	2025-02-05	Sara, Rushi	Everyone else		Anna Hirschbeck	Retrospective

	- one team goal is to have efficient team meetings
	- another goal is to finish the project successfully and make our industry partner content
	- to gain experience in agile software development
	- to have a positive happiness chart by the end of the project
	- to develop clean and maintainable code
	- it is acceptable to join max 5 minutes late
Meeting norms	- if a person is more than 5 minutes late, he / she must let the team know in advance
	- technical decisions should be made by SD in their respective channel
	- tickets should only be included if they contain a clear user stoy and details concerning the technical implementation
	- ideally all disagreements should be solved through discussion to reach a mutual solution
	- criticism should always be constructive and never personal
	- SD should work independently but we can always ask for help
18/	
Working norms	- keep good documentation
	- POs will lead the meeting as allocated in the planning document
6	- the PO which is not leading the respective part of the meeting is responsible for keeping track
Coordination norms	- SD choose which work they take on and make sure that everything is covered as required
	- communicating via discord
	- main communication channel is discord / WhatsApp just optional as a backup
	- main communication channel is discord / whatsApp just optional as a backup
	- acknoledgement of message within 24 hours
	- in case of illness communicate as soon as possible via discord
Communication norms	- there should be a special channel just for the SD to communicate and discuss technical issues
	- disagreements that affects the whole team / project should be communicated publicly and voted on in order to be solved
Consideration norms	- disagreements concerning technical issues should be discuessed among the SD
	- at leat one review is required to merge to main branch
Cont improvement norms	- feedback on quality should also be given via comments
Cont. improvement norms	- reedback on quality should also be given via comments
Rewards	- give compliments and praise team (members)
	3
	- if a team member fails to to their obligations, a warning will be given
	- if this should happen again, the team member needs to explain their reasons and state which measures should be taken to ensure it
Sanctions	does not happen again
Signatures	
Corum Master	Appa Hirashkask
Scrum Master	Anna Hirschbeck

Product owner	Sara Pervana
Product owner	Rushi Bhupendrabhai Faldu
Software developer	Abderrahmane Bennani
Software developer	Yash Bhesaniya
Software developer	Kübra Demirhan
Software developer	Vivek Rudani
Software developer	Shanaka Anuradha Samarakoon
Software developer	Frederick Baier
Software developer	Preet Vadaliya

amos2024ws04-planning-document Product Glossary

Term	Definition

amos2024ws04-planning-document Product Goal

Product Vision	Project Mission
Our vision is to revolutionize family playtime by integrating neuroscience, child development, and advanced AI technology to create interactive experiences that improve lifelong skills and build strong family connections. We envision a world where every family can transform everyday moments into meaningful opportunities for growth, and joyful play, using the power of AI to adapt to the needs of every child and caregiver.	Our mission is to build a smart, intuitive AI agent that makes high-quality, research-backed play accessible to all families. By using everyday household items and existing toys, MUMBI provides personalized, adaptive play experiences that encourage cognitive, physical, social, and emotional development in young children, while supporting parents in creating meaningful connections. Our focus is on integrating naturally into daily life, being accessible to all parents, and providing scientific integrity, ensuring that every experience is backed by neuroscience and designed for real-world impact.

amos2024ws04-planning-document Sprint Goals

Sprint #	Sprint goal
1	None
2	None
3	None
4	Optional
5	Finalize the app's UI design based on the guidelines and connect the first half of the onboarding flow questions in the app.
6	Improve and align the UI on the onboarding flow and prepare for mid-project release
7	complete the onboarding flow
8	Setup the multi agent for Playtime session and get user feedback after each playtime
9	integrate AI agent with button functionality.
10	
11	
12	
13	
14	
15	

amos2024ws04-planning-document

Mid-Project Release plan

	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remainir
Release						
otal			134		70	
Olai			134		70	
prints						
	In the Late of the Control of the Co			400		
	Initial documentation requirements and introduction to the project Setting up the development environment of the project and initialize software architecture		1 27		1 21	
	Setup the auth flow and main screens		8		8	
	Develop the onboarding questions flow		32		26	
	Finalize the app's UI design based on the guidelines and connect the first half of the onboarding flow questions in the app		21	45	14	
	Improve and align the UI on the onboarding flow and prepare for mid-project release		45	0		
eatures						
	Initial documentation requirements and introduction to the project					
		Host first meeting with IP	1		1	
	Setting up the development environment of the project and initialize software architecture					
		Setup Development Environment	13		8	
		Initialize Software Bills of Materials (SBoM)	2		1	
		Rendering of default README and CI documentation Design team T-shirt and upload in GitHub	2		1	
		Design team logo and upload in GitHub	2		2	
		Add CI/CD Workflows for Release Drafter and Checkout Instructions			_	
		Create the summary of underlying tech stack	1		1	
		Create the diagram of runtime components	3		3	
		Create the diagram of code components	2		3	
		Create a textual explanation of diagrams and choices	2		2	
	Setup the auth flow and main screens	FEAT: SignUp page	8		8	
		real. Signop page	0		0	
	Develop the onboarding questions flow					
		[Onboarding flow] Create welcome screen after first-time user authentication	3		2	
		[Onboarding Flow] Find Lottie animations/pictures	3		2	
		[Onboarding flow] Get contextual questions from user - {age of kids} [Onboarding flow] Get contextual questions from user - {energy level}	3		3	
		[Onboarding flow] Get contextual questions from user - {no. of kids}	3		3	
		[Onboarding flow] Get playtime related questions - {type of play}	5		5	
		[Onboarding flow] Update the interactive labels (text)	2		2	
		Setup User Login and Signup (carryover from sprint 3)	8		8	
	Finalize the app's UI design based on the guidelines and connect the first half of the onboarding flow questions in the app	Update primary and secondary colors in the global configuration	2		0	
		Conhecrating flour Add entire to move to the next supplies	-			
		[Onboarding flow] Add option to move to the next question [Onboarding flow] Create loading screen before playtime activity suggestion	5		2	
		[Onboarding flow] Greate loading screen before playtime activity suggestion [Onboarding flow] Get playtime questions from user - {duration}	5		5	
		Create a video recording for the whole build process	5		5	
		FEAT: Add playtime onboarding question				
		FEAT: Add Welcome Screen	3		2	
		FEAT: Base App navigation and User Auth with custom Formik form component				
		FEAT: Energy Level Page				
		FEAT: Number Of Kids Question and Onboarding Screen Feat/app auth flow user age				
		FIX: Add missing dependency for slider				
		FIX: The mext button in the onboarding screen is now disabled if the current question is not answered				

amos2024ws04-planning-document

Mid-Project Release plan

	Goal	Feature Name		Est. Remaining	Real Size	Real Remaining
R .	Improve and align the UI on the onboarding flow and prepare for mid-project release	Improve UI for [energy level] question	3			
•	improve and digitale of on the chooling now and property for the project release	create project documentation	2			
		Improve UI for [type of play] question	3			
		Improve UI for sign in	3	1		
		Improve UI for sign up	3			
		create and improve UI for [name of user] question	2			
		Improve UI for [age of kids]	2			
		Improve UI for welcome screen	2			
		Improve UI for [duration] question	2			
		Improve UI for [no. of kids] question	2			
		create and finish mid-project release plan	3			
		technical refactor of the onboarding flow				
		tag code for mid-project release	1			
		update primary and secondary color in global configuration	2			
		display welcom screen only for first time users	5			
		improve and test UI for info modal for additional information	2			
		set the global font of the app to inter	5			

amos2024ws04-planning-document Definition of Done

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
1	The feature has been fully implemented, thoroughly tested, and integrated into the app with no critical bugs or performance issues.	All features and tasks planned for the sprint have been implemented, integrated, and tested to confirm they work together, with no major issues or blockers.	The app has been thoroughly tested and functions as intended, handling all expected user inputs and scenarios without critical failures or performance issues.
2	Manual testing is complete, verifying that the feature meets all acceptance criteria.	A comprehensive manual check confirms that the app builds successfully and all new or updated features are stable and functional.	User experience testing is completed, and the app's design is verified to be aligned with design guidelines.
3	Big features are documented inside the code, with clear explanations of functionality, usage, and any relevant edge cases.	Ensure that existing functionality has not been negatively impacted by the sprint changes.	Final regression testing ensures that all features work well together and no issues have been introduced in the overall app experience.
4	The feature has undergone peer review, with the code approved by at least one other team member to ensure quality and maintainability.	The app is ready for deployment, meeting all necessary quality and performance standards.	Design and technical documentation are updated to reflect the final architecture, data flow, and system components.
5	The feature branch has been successfully merged into the main branch, and the pull request is closed and the branch is deleted.	Sprint release notes are prepared, summarizing new features, enhancements, and bug fixes.	The project release has been approved by product owners and the industry partner.
6	The feature's UI/UX has been reviewed to ensure consistency and alignment with design guidelines.		

amos2024ws04-planning-document Final Project Release plan

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
Release						
Total			0	0		
0						
Sprints						
7	complete the onboarding flow		32			
8	Setup the multi agent for Playtime session and get user feedback after each playtime		34			
9	integrate AI agent with button functionality.		29			
10	Complete implementing 40% of LLM logic		20			
11	complete implementing 60% of LLM logic		20			
12	complete implementing 80% of LLM logic		21			
13	Complete implementing 100% of LLM logic		25			
14	fix bugs, refactor code and prepare for final project review		25			
1	5					
Features						
7	complete the onboarding flow	create UI [health consideration]	5			
		[Onboarding flow] Create UI for Items at hand question	5		5	
		Use Gemini API to identify the items on picture taken	8		8	
		[Onboarding flow] display items identified when taking pictures	8		8	
		[Onboarding flow] create UI for Skills question	3		3	
		Set the user data in firebase	3		5	
_						
8	Setup the multi agent for Playtime session and get user feedback after each playtime	[Favourites] create UI to show all saved/favourite activity	3		_	
		[Playtime Ends] Create UI after playtime activity ends	5		5	
		[Playtime session] Implement 'Stop' button functionality	3			
		[Home Screen] Create the UI for home screen	5			
		[Playtime Ends] 'Add to favorites' functionality after an activity session ends	5			
		[Playtime Ends] Save feedback for each activity in the database	3		2	
		[Playtime session] Create UI for Playtime session screeen	2			
		[Playtime Session] Set-up multi-agent models with Genkit	8		8	
9	integrate AI agent with button functionality.	[Playtime session] Integrate generative AI agent for activity instructions	13			
•	and garden and south fundaments.	[Playtime ends] Create UI for user to explore more science backed info related to activities	3			
		[Playtime session] select kids for new playtime session				
		[Playtime session] start a favourite activity by clicking replay	3			
		[Playtime session] start a new play from home screen	5			
		[Favourites] Update details for saved/ added to favourites	5			
		p. a. callicos operate details for currous added to furbulifico				

amos2024ws04-planning-document Final Project Release plan

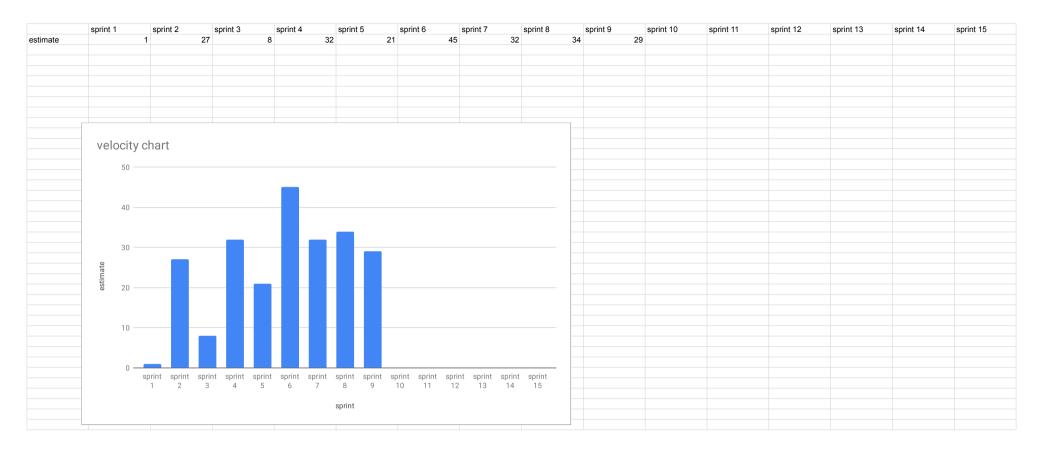
Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
10 11 12 13 14	Complete implementing 40% of LLM logic complete implementing 60% of LLM logic complete implementing 80% of LLM logic Complete implementing 100% of LLM logic fix bugs, refactor code and prepare for final project review		25 25			
12	complete implementing 80% of LLM logic		25			
13	Complete implementing 100% of LLM logic		25 25			
14	in bugs, relactor code and prepare for final project review		23			

amos2024ws04-planning-document Final Project Release plan

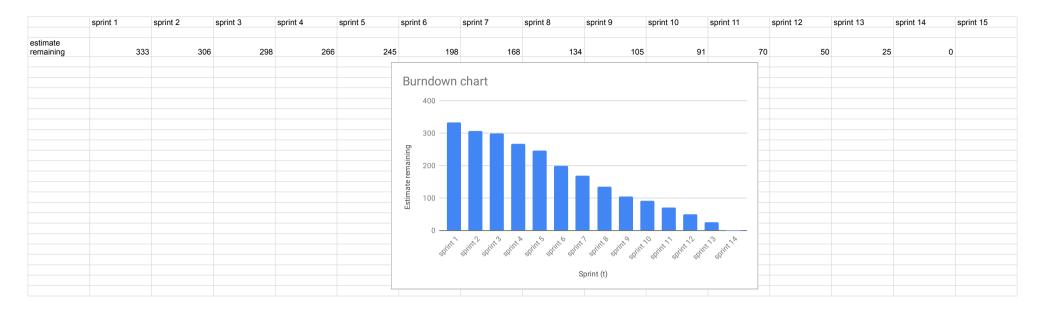
Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining

Type	Link / reference

amos2024ws04-planning-document velocity chart



amos2024ws04-planning-document burndown chart



amos2024ws04-planning-document Planning Poker

Last Name	First Name	Value			
Bennani	Abderrahmane		#DIV/	#DIV/	
Pervana	Sara				
Faldu	Rushi Bhupendrabhai		0!	01	
Demirhan	Kübra				
Baier	Frederick		0	No size	
Samarakoon	Shanaka Anuradha		1	Trivial size	
Vadaliya	Preet		2	Small size	
Rudani	Vivek		3	Medium size	
Bhesaniya	Yash		5	Large size	
			8	Very large size	
			13	Too large (size)	
How to play planning poker					
Everyone type their number int	o their value field, don't hit return yet				
2. Someone, perhaps a product of					
3. Then, everyone hit return to su					
· · · · · · · · · · · · · · · · · · ·					

amos2024ws04-planning-document Bill of Materials

#	Context	Name	Version	License	Comment
	Development	Node.js	v20.14.0	MIT	Core runtime for backend and development tasks.
	Development	NPM	v10.9.0	Artistic License 2.0	Package manager for Node.js dependencies.
	Development	Firebase	v13.23.0	Apache-2.0	Backend-as-a-Service (BaaS) for handling data and authentication.
	Development	Expo	v13.22.1	MIT	Framework for building and deploying React Native apps.
	Development	Typescript	v5.1.3	Apache-2.0	Strongly-typed language for improved code quality and maintainability.
	Development	React	v18.2.0	MIT	Library for building user interfaces, particularly for web applications.
	Development	React Native	v0.74.5	MIT	Framework for building native mobile applications using React.