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Project Data

Project Name	Automatic Panelist Detection					
Team name	The Octectors.					
Production system (if any)						
Test system (if any)						
GitHub repository	https://github.com/amosproi/amos2021ws04-auto-panelist-detection					
GitHub kanban board (project)	https://github.com/amosproj/amos2021ws04-auto-panelist-detection/projects/1					
Team T-shirt (white)	2 (1*L, 1*M)					
Team T-shirt (black)	4 (2*L, 2*M)					
Team T-shirt design	https://www.shirtinator.de/loadBasket/VoLykYAWYye					
Additional materials						
Zoom-link	recurrent: thursday 12:30 - 14:00 https://tu-berlin.zoom.us/j/61949080874?pwd=WkZtdERTcStYcC85MlFxWEhwclVzUT09 https://happy-amos.appspot.com/					
User and Password to Junyi's	IIIQPS://nappy-amos.appspot.com/					
Pi 4B	pi - amosamos					
SSH to Junyi's Pi 4B	ssh -p 6050 pi@82.165.19.105					
VNC Viewer to Junyi's Pi 4B	82.165.19.105:6090, Download link: https://www.realvnc.com/de/connect/download/viewer/					
User/design/build documentation	https://www.icloud.com.cn/pages/0_wbj3Jtlba1laiE_t3sy2yqg					

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Project Team

Last Name	First Name	GitHub User Name	Email Address
Hoang	Liam	liamh1999	liam_hoang1999@hotmail.com
Freund	Janis	janisfreund	janis.e.freund@campus.tu-berlin.de
Jiang	Junyi	JJYi1	junyi.jiang@campus.tu-berlin.de
Gottschling	Daniel	danielgottschling	daniel.gottschling1024@gmail.com
Elhwawshy	Muhammad	hwawshy	m.elhwawshy@campus.tu-berlin.de
Ben Cheikh	lyadh	iyadh-97	iyadh97@gmail.com
Castro Otero	Daniel Mauricio	Deryu99	dank9928@gmail.com
Mesecan	Hüseyin	AirTrake	hmesecan@web.de

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Product Glossary

Term	Definition

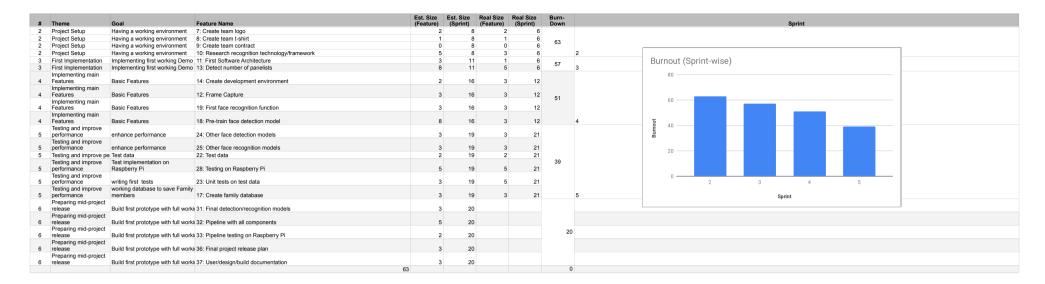
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Product Goal

Product Vision	Project mission
The software aims to benefit both television audience analysts and panelists. It automatically captures the real TV-watching behavior of the panelists and delivers therefore more meaningful data for the analysts. The improved quantity and quality of the collected data would enable the implementation of better prediction models and applications in this field. Panelists also are provided with more simple and efficient ways to take part in such programs.	The goal of this project is to create a cheap yet efficient device to optimize television audience measurement. This will be achieved by automatically detecting and recognizing panelists using pre-trained computer vision models and an RGB and infrared camera. All household panelists can be registered in a local database to facilitate the recognition process. Alongside gender and age, attentiveness and emotions will also be assessed. To account for user privacy, the gathered data is anonymized and sent to a GfK server. The device is not only non-intrusive but also time and power-efficient. It should also work under diffficult lighting conditions.

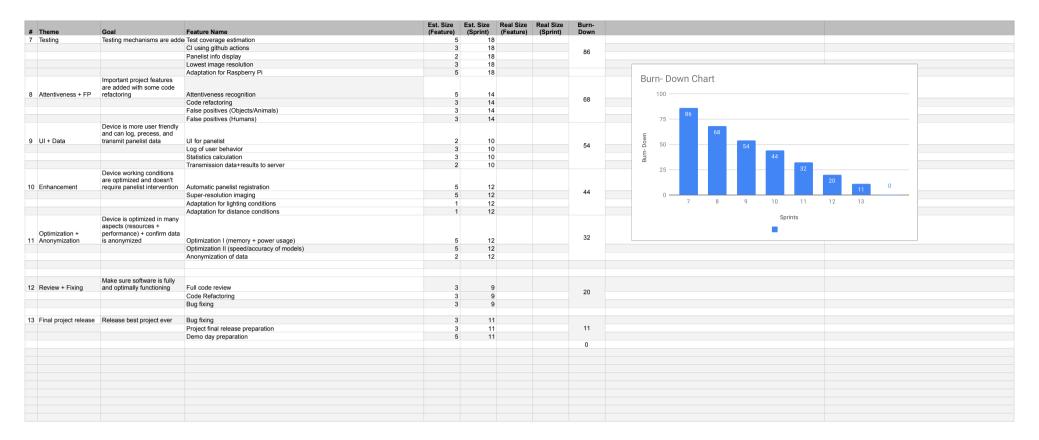
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Mid-Project Release Tracking



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Final Project Release Planning



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Role Assignments

#	Meeting Day	Comment	Coach	Product Owner	Software Developer	Release Manager	Scrum Master
1	2021-10-21		Yes	Iyadh Ben Cheikh	Everyone else	Liam Hoang	Coach
2	2021-10-28		Yes	Iyadh Ben Cheikh	Everyone else	Daniel Gottschling	Coach
3	2021-11-04		Yes	Iyadh Ben Cheikh	Everyone else	Janis Freund	Coach
4	2021-11-11		Yes	Iyadh Ben Cheikh	Everyone else	Janis Freund	Coach
5	2021-11-18		Yes	Iyadh Ben Cheikh	Everyone else	Hüseyin Mesecan	Coach
6	2021-11-25		Yes	Iyadh Ben Cheikh	Everyone else	Junyi Jiang	Coach
7	2021-12-02	Mid-project release due	Yes	Iyadh Ben Cheikh	Everyone else	Muhammed Elhwawshy	Coach
8	2021-12-09			Iyadh Ben Cheikh	Everyone else	Daniel Castro	Liam Hoang
9	2021-12-16			Iyadh Ben Cheikh	Everyone else	Liam Hoang	Daniel Gottschling
10	2022-01-13		Yes	Iyadh Ben Cheikh	Everyone else	Daniel Gottschling	Janis Freund
11	2022-01-20			Iyadh Ben Cheikh	Everyone else	Janis Freund	lyadh Ben Cheikh
12	2022-01-27			Iyadh Ben Cheikh	Everyone else	lyadh Ben Cheikh	Hüseyin Mesecan
13	2022-02-03		Yes	Iyadh Ben Cheikh	Everyone else	Hüseyin Mesecan	Junyi Jiang
14	2022-02-10	Demo day / final release		Iyadh Ben Cheikh	Everyone else	Junyi Jiang	Muhammed Elhwawshy
15	2022-02-17	Project retrospective due		Iyadh Ben Cheikh	Everyone else	Muhammed Elhwawshy	Daniel Castro

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Team Contract

Goals	Work together to deliver the best software product!
	Fulfill all requirements.
Meeting norms	Thursdays Meeting: 12:30 (Zoom) and Tuesday 8:00 (MAR)
	Meetings on thursdays are mandatory. Tuesday: If you can come to campus.
	Being late is not acceptable.
Working norms	Decisions will be made after dicussing and agreeing with all the team.
	Team members will receive criticism without fingerpointing and staying objective.
	How independently should we work? Each person is assigned one given task.
Coordination norms	Issues are assigned to the team members by PO or by volunteerring.
	The release manager is responsible for keeping the meetings on track
Communication norms	Telegram-Chat; Zoom-Videomeeting(Tuesday,Thursday); In-person meeting on Tuesday in the University (MAR)
	How should a team member communicate an illness? Tell the group. His work will be splitted between the other group members
Consideration norms	Are side conversations appropriate? Yes. We keep it fun but we get the job done!
	How will we handle disagreement? Talk with the person; ask the group; PO has the last word.
Cont. improvement norms	Track the progress of other team members using the Kanban board and regular standup mails
	A group discussion is triggered if problems occur that do take longer to solve than expected
Rewards	How will we mark achievements? Celebrate/Go out and eat/drink.
Sanctions	If you are late -> bring food/snacks to the meeting on Tuesdays :)

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Documentation

Туре	Titel	Link / reference
Type Face_Detection	MTCNN	
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Bill of Materials

Context	Name	Version	License	Comment
1	Raspberry Pi 4B			will this be provided?
2	Camera	1		
3	Infrared Camera	1		
4	PyTorch	1.10	BSD	
5	InsightFace	Newest	MIT	
6	InsightFace OpenCV-Python	4.5.4	MIT	

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Planning Poker

Last Name	First Name	Value			
Hoang	Liam	3			
Freund	Janis	3	3.00	OK	
Jiang	Junyi	3	3.00	UN	
Gottschling	Daniel	3			
Elhwawshy	Muhammad	3	0	No size	
Ben Cheikh	lyadh	3	1	Trivial size	
Castro Otero	Daniel Mauricio	3	2	Small size	
Mesecan	Hüseyin	3	3	Medium size	
			5	Large size	
			8	Very large size	
			13	Too large (size)	

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Impediments Backlog

Sprint	Status	Source	Impediment	Resolution
1	Resolved	lyadh	Team members are not responsive	The communication imoproved with time
1	Resolved	Liam	Confused with Course Organisation	Got to know about the flow of things
1	Resolved	Daniel C	Time management and course work	Got okay with time
1	Resolved	Junyi	Physical meeting not in sync with the virtual meeting	The minutes of the meeting was shared by the physical team
1	Resolved	Muhammad	Confused with Course Organisation	Got to know about the flow of things
1	Resolved	Hüseyin	Problem with Medium of communication	The language barrier got removed with time
2	Resolved	lyadh	He is not happy with the Progress of the project and wanted everyone's colloboration in getting the project started.	The impedimentg got removed as the sprint increased and they got an idea about the whole project
3	Resolved	lyadh	Time needs to be devoted to research the topic before moving to development phrase, like researching topics which in turn reduces the possibility of redoing something which shouldn't be done in the first place.	The research topics are already done and the programming part has already started.
3	Resolved	Liam	Same as Iyadh	Same as lyadh
3	Resolved	Janis	The task should be assigned unifomly like 4 SD shouldn't be assigned to only one task.	The next sprint, the tasks were uniformly distributed .
4	In-work	Daniel	Problem in coordination between physical meeting and virtual meeting	The problem is solved with better team coordination.
5	In-work	Janis	The backlog items appreared few minutes before the Team meeting	The backlog update was done during the week anda as a result the impediment was solved
6	Created	lyadh	The power usage of Rpi is a bit higher than the expectation from the industry partner.	

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Definition of Done

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	Project builds with no errors	Project builds with no errors	Project builds with no errors
	Feature was demoed and accepted by product owner	Release was demoed and accepted by product owner	Project was demoed and accepted by product owner
	Pull request review by other team member	All DoD of sprint features are met	Project should fufill all project description tasks
	Unit tests written if necessary and all tests are passed	No Regression	Project should have minimal to no bugs
	Test coverage is above 40%	Code documentation is up to date	Test coverage is above 80%
	Code is understandable and commented	Test coverage is above 60%	Non-functional requirements met
			Code documentation is up to date

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Bug Reports

#	related to	content	status	in kanban board	comment
	pynput	if pi board is not connected to a display => bad display name error, make sure that you have an X server running.	reported	not yet	try using python's keyboard module?