

This Doc	http://goo.gl/NpckKW
Live Service	http://proj8.ss13.osramos.de
Code repository	https://sourceforge.net/projects/amos2013/
Schedule	http://goo.gl/BZpU8
Survey	http://osr.cs.fau.de/surveys/index.php/771726/lang-en

Elektrobit RFID Inventory Management Product Vision

The "Elektrobit RFID Inventory Management" helps to manage and locate hardware devices in the office rooms because the amount of hardware used is simply too much and the location changes too often to keep track. Searching for two or three items can take up to several days at the moment.

The "Elektrobit RFID Inventory Management" consists of an app and a web-application. Users can easily update the current location and owner of a device via the app and on the web-app, they can check who is in possession of the hardware and where it is at the moment. This is important, for instance, to locate bottlenecks for a new project in an early phase or simply for stocktaking.

Release Plan

Release	1.1					
No Sprints	6					
Due Date	17.07.2013	(final release)				
Sprint #	Theme		Est. Effort	Burn-Down	Real Effort	
6						
7						
8						
9						
10						
11						
12						
Total			0		0	
		User Stories				
Release	1.0					
No Sprints	6					
Due Date	29.05.2013	(mid-term release)				
Sprint #	Theme	User Stories	Est. Effort	Burn-Down	Real Effort	
0				148		
1	Project Start	1, 2, 3, 4, 5, 6, 7	15	127	15	
2	Basic Development	10, 11, 12, 13, 14	28	99	34	
3	Improvements & Testing	15, 16, 17, 19, 20, 21, 22, 23	31	75	32	
4	Hardware MGMT	24, 25, 26, 27, 28, 29, 30	24	50	27	
5	App GUI & HW MGMT	31, 32, 33, 34, 35, 36	24	26		
6	User MGMT	38, 39, 40, 41, 42	26	0		
Total			148		108	

Product Backlog

#	Effort	Category	Short Name	Item Description	Acceptance Criteria				
37	8	DB development	Add DB handler	As an user, I only have access to the data on the memory in order to improve the performance.	Changes on data will first be done in the memory. later it will be transfered to the database.				
38	3	HW MGMT	Basic Sorting (Desktop)	As an user, I can sort the HW in order to find groups of data quickly.	Every column can be used as a sorting criteria. If the user clicks on a column it will autmatically sorted alphabetically.				
39	5	HW MGMT	Scan RFID	As an user, I can scan the RFID of the HW with the RFID reader in order to get the explicit identification number of a HW device.	The RFID of the HW is displayed in the text box. The RFID can not be changed manually (grey backgorund of the textbox).				
40	2	HW MGMT	Enter real data	As an admin, I can enter the RFID of all HW devices and all available rooms.	The location and RFID of all HW devices can be seen on the website.				
41	3	HW MGMT	Advanced search field	As an user, I can search for different meta data in order to find HW quickly.	On the website the user can combine different search criteria (object, brand, model, colour, location) to find a specific HW device. As a result only the matching records are visible. The user can discard the search and will then be able to see all records again.				
42	5	User MGMT	Register	As an user, I can register on the website in order to be assigned to a user group.	The user can click on a link which forwards her/him to a page for registration. On this page s/he can enter required data. Mandatory input is name, employee ID and office.				
43	5	User MGMT	Login	As an user, I can login to the website in order to get access to the information which is assigned to my user group.	The user can login to his/her account. Needed login information is employee ID and password.				
44	2	User MGMT	Logout	As an user, I can logout to leave the application.	Only one click is needed to log out the user from the website.				
45	5	User MGMT	Reset Password	As an user, I can reset my password to ensure security.	After entering the mailadress the user will recieve a mail with a new password.				
46	3	User MGMT	Basic Profile	As an user, I can see basic profiles about every other user to know which user is already registered and to which job he has in the company.	A user profile can be accessed with a URL.				
47	3	User MGMT	Change Password	As an user, I can change my password to ensure security.	A new page opens up and first a user has to enter his current password and afterwards two times the new password. If the current password is correct and the new password two times the same, by hitting the "save" button the password will change.				

Product Backlog

#	Effort	Category	Short Name	Item Description	Acceptance Criteria				
48	100	EPIC	Location MGMT	As an user, I can see in which room the HW is located can create, add and change rooms.	NA				
49	100	EPIC	Advanced User Rights MGMT	As an admin, I can switch users into different right mgmt groups and the users have different rights afterwards.	NA				
50	100	EPIC	Details of Hardware	As an user, I can see where the hardware is and who it holds.	NA				
51	100	EPIC	Hardware error	As an user, I can see if an error occured by using the hardware.	NA				
52	100	EPIC	Stolen hardware	As an user, I can see if a hardware was stolen when it is not available in the announced room.	NA				
53	100	EPIC	Scan hardware (1 & multiple)	As an user, I can scan all hardware devices via a RFID-scanner which are not distanced over 40cm	NA				
54	100	EPIC	Create basic mobile website design/template	As an user, I can see an mobile optimized version of the website.	NA				

Sprint Backlog

#	Rel.	Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
31	1	8 (5)	HW MGMT	Basic search field (Desktop)	As an user of the website, I can search for an HW ID in order to find HW quickly.	The user can enter an ID in a search field. S/he can start the search process. As a result only the record which s/he was looking for is visible. The user can discard the search and will then be able to see all records again.	David Lehmeier
32	1	3	DB Development	New DB tables and java classes	As an administrator, I can see new DB tables in order to later add dropdown menus to the service.	Three new DB tables exist for the management of office, rooms and users.	Andreas Singer, Liping Wang
33	1	5	App GUI	Select office/employee/room	As an user, I can select the office/room/employee where the HW is located in order to update the record.	Possible offices/rooms/employees are shown and one can be selected by the user f.w. within a combobox.	Andreas Singer
34	1	3	Minor improvements	Fixing URLs	As a user, I can't see anymore not relevant appendixes like "/? 6" in the end of the URL in order to have a better user experience.	Not relevant appendixes in the end of the URL anymore listed.	Andreas Singer
35	1	8	Advanced search	Partial searching	As a user, I can also search for partial strings, in order to have improved search results.	Partial searching is possible.	David Lehmeier
36	1	2	Documentation	Javadoc	As a developer I can see the Javadoc Documentation in order to document the developed code.	Documentation is written.	Liping Wang

Feature Archive

#	Rel.	Sprint	Est. Effort	Real Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
1	1	1	5	5	Specialist concept	Requirements definition	As a team we have a homogenous understanding of the needs the stakeholder wants in order to fulfill the needs of the order correctly.	Written down in a document and every stakeholder should "sign it".	Andreas Singer, David Lehmeier, Liping Wang, Andreas Lutz, Jana Riechert, Kerstin Stern
2	1	1	2	2	Communication	Definition of Communication	As a member of the team we know the communication platform/devices/software and state how it will be used in order to get a more fluent SW development process.	Written down in a document.	Andreas Singer, David Lehmeier, Liping Wang, Andreas Lutz, Jana Riechert, Kerstin Stern
3	1	1	1	1	Quality MGMT	Definition of Done	As a member of a team I can check the definition of quality criterias for when a developed feature is done in order to get a more fluent sprint process.	Written down in a document.	Andreas Singer, David Lehmeier, Liping Wang, Andreas Lutz, Jana Riechert, Kerstin Stern
4	1	1	1	1	Quality MGMT	Definition of Readiness	As a member of the team I can check the definition of when a user story is ready in order to get a more fluent sprint process.	Written down in a document.	Andreas Lutz, Jana Riechert, Kerstin Stern
5	1	1	2	2	Dev Environment	Gathering Server/DB Information	As a developer I have all kind of information about the different types of databases, server and in particular login data and location in order to start developing.	Information should be there.	Andreas Singer, David Lehmeier, Liping Wang
6	1	1	2	2	Configuration MGMT	Code folder plan	As a member of the team I know how all of the written code will be stored in the SCM system in order to get a better structure in the project.	Written down in a document.	Andreas Singer, David Lehmeier, Liping Wang
7	1	1	2	2	Configuration MGMT	Data folder plan	As a member of the team I know how all of the data and documents will be stored in the files section of the repository in order to get a better structure in the project.	Written down in a document.	Andreas Singer, David Lehmeier, Liping Wang

Feature Archive

#	Rel.	Sprint	Est. Effort	Real Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
8	1	2	8	8	Dev Environment	Technology definition	As a SD I know which programming languages, operating systems etc. will be used so that we all use the same technology.	All of the OS and languages should be defined.	Andreas Singer, David Lehmeier, Liping Wang
9	1	2	8	8	Dev Environment	Introduction Workshop	As a SD I took part on an introduction workshop concerning Sourceforge (and plugins), installing all the software, SCM-Plugins, etc. to in order to get a homogenous work environment and vision.	All of the developer should have installed all of the software and all of the required knowledge to use it.	Andreas Singer, David Lehmeier, Liping Wang
10	1	2	2	2	Basic Dev	Setting up the project	As an admin, I have to set up the web application archive.	.WAR file can be deployed locally.	Andreas Singer, David Lehmeier
11	1	2	3	2	Basic Dev	Website Framework	As an user of the website, I can open the website and see a blank page in order to know there is an existing website where I can check all the HW later.	Website can be opened locally.	David Lehmeier
12	1	2	1	1	Basic Dev	Basic Database Framework	As a developer, I can open the DB and see columns and tables so that I can store data there.	Database with tables and columns exist and can be opened locally.	David Lehmeier
13	1	2	5	8	Basic Dev	Connecting Website and DB	As a developer, I can use the connection between website and the database in order to use the web GUI to change data in the DB later.	On the website a table with the unstructured content of the DB is visible.	David Lehmeier
14	1	2	1	1	Basic Dev	Setting Up Android App Framework	As an app user, I can see a specific website, so that I can use all of the functions on my smartphone, as well.	An android app which only displays a specific website is created.	Andreas Singer
15	1	3	5	8	Quality MGMT	Improvements of common practices	As a developer we discuss the file naming, folder structure and commenting during development so that the structure of the project is given.	SD having a common understanding about practices. Documents are too much overhead because the team consists out of only 3 SD's.	Andreas Singer

Feature Archive

#	Rel.	Sprint	Est. Effort	Real Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
16	1	3	2	3	Basic Dev	DL link for apk	As a user of the website, I can see a download link to the Android apk so that I can download the app for my smartphone.	DL link to the Android apk is on the website.	David Lehmeier
17	1	3	8	8	Testing	Understanding junit	As a developer, I should work with and understand junit to be able to test the application.	SD understands junit so that s/he can write the test cases and test the software.	Andreas Singer, David Lehmeier, Liping Wang
18	1	3	8	8	Testing	Test Cases	As a developer, I should write test cases to make sure the software works without errors.	There are test cases for every existing file and function. No errors occur in the tests.	Liping Wang
19	1	3	1	2	Testing	Create DB test data	As a developer, I can see testdata in the DB so that I can check if the displaying of the DB content works.	The DB contains testdata for HW ID and location (offices).	Andreas Singer
20	1	3	1	1	HW MGMT	Basic DB content displaying	As a user on the website, I can see the HW String with the connected Rooms, so that I can locate the HW.	DB content should be displayed.	David Lehmeier
21	1	3	2	3	HW MGMT	Basic HW list with columns	As an user of the website, I can see the content of the DB in tables on the website in order to have a better structure of the displayed data.	On the website a table filled with testdata can be seen.	David Lehmeier
22	1	3	2	2	HW MGMT	Change HW information	As an user of the website, I can change the information of the DB in order to have the current state.	The user can change the data of every attribut of a data set. Changes will be saved.	Andreas Singer
23	1	3	5	5	HW MGMT	Add HW information	As an user of the website, I can add information to the database in order to have the current state.	The user can add a record to the DB. He can enter values for all attributes and these will be saved.	David Lehmeier
24	1	4	8	5	Design	Create basic website desktop design/template	As an user, I have a HTML sketelon of the website in order to find information easily.	Create a seperate website to differentiate between input (App) and output (website) page. A clear structure can be recognized. Data is arranged in a table. Text is structured with headlines. Links are emphasized.	David Lehmeier

Feature Archive

#	Rel.	Sprint	Est. Effort	Real Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
25	1	4	5	5	HW MGMT	Delete HW information (Desktop)	As an user of the website, I can delete information of the DB in order to have the current state.	The user can delete a record from the DB. Afterwards the record is not visible for the user anymore.	David Lehmeier
26	1	4	5 (8)	8	HW MGMT	Basic search field (Desktop)	As an user of the website, I can search for an HW ID in order to find HW quickly.	The user can enter an ID in a search field. S/he can start the search process. As a result only the record which s/he was looking for is visible. The user can discard the search and will then be able to see all records again.	Liping Wang, Andreas Singer
27	1	4	2	2	App GUI	Enter RFID	As an user, I can enter a RFID in a text box in order to simulate the scan process.	A text box with the RFID is visible for the user. Numbers can be entered.	Andreas Singer
28	1	4	3	3	App GUI	Submit entry	As an user, I can click on "Submit" in order to save the information I entered in the different fields in the app.	The entry can be seen in the DB. Entry can be seen on the website.	David Lehmeier
29	1	4	3	3	HW MGMT	Update website I	As an user, I can add a HW device with the app in order to have the current state of the DB.	The entry can be found on the website which is automatically updated (user can see his entry).	David Lehmeier
30	1	4	1	1	HW MGMT	Update website II	As an user, I can change the location of a HW device with the App in order to have the current state of the DB.	The website is automatically updated. Therefore the user is able to see her/his changed record on the website.	Andreas Singer

Impediments

Sprint	Comments	Status			
1	Problems and a huge amount of open questions with actual task appered.	Can be clarified because of a meeting with EB at their offices.			
1	Project start was difficult because of the different background of all team members.	Meetings helped to overcome this problem and communication problems could be solved.			
2	Java 6 and Tomcat 6 should now be used (message from sunday), but SD's already used v7 which made it extra effort to change this.	Everything is now changed and works with Java/Tomcat 6 but it was still extra effort we put in.			
2	Still no hardware is available yet (scanner & tags).	Solution is to work around these features as long as we and EB still don't know how it works.			
3	There were some problems with junit. It was hard to understand and to write test cases.	Could be partially solved through intense teamwork, face-to-face talk and extra research.			
3	Developer build features which were not required for this sprint. They did this because of their intense motivation.	Release Plan/Backlogs/Archives updated. Lessons learned: Talked about it.			
4	Developers who handed features in do not match with the responsibility allocation from the sprint planning.	We will plan things more carefully starting with sprint 05. We will also change the responsibility in the feature archive, depending on who did it in the end.			
4	Troubles to fit AMOS workload into the week, because of work spikes from other lectures.	Other team members can help out and do more, while evening it out in another sprint.			
4	Since we the last group our feedback only comes on tuesday afternoon. Due to that it's impossible (most of the time) to already abide by the feedback for the next sprint release on friday but only for the sprint after that.	We will talk with Hannes about that.			
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13					

Sprint	Scrum Master	Review & Release Manager
1	Jana Riechert	<i>(Not needed because only organiztional tasks were fulfilled.)</i>
2	Kerstin Stern	Liping Wang
3	Andreas Lutz	David Lehmeier
4	David Lehmeier	Andreas Singer
5	Andreas Singer	Liping Wang
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