This Doc	http://goo.gl/NpcKW
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.

	1.1					
No Sprints	6					
Due Date	17.07.2013	(final release)				
Sprint #	Theme		Est. Effort	Burn-Down	Real Effort	
6						
7	Admin MGMT & Basic Knowledge	45, 46, 47, 48, 49, 50, 51	24			
8						
9						
10						
11						
12						
Total			24		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				154		
1	Project Start	1, 2, 3, 4, 5, 6, 7	15	127	15	
2	Basic Development	8, 9, 10, 11, 12, 13, 14	28	99	30	
3	Improvements & Testing	15, 16, 17, 19, 20, 21, 22, 23	34	75	40	
4	App GUI & HW MGMT	24, 25, 26, 27, 28, 29, 30	27	50	27	
5	Improvements & Documentaion	31, 32, 33, 34, 35, 36	24	26	25	
6	DB & Memory Dev & Admin MGMT	37, 38, 39, 40, 41, 42, 43, 44	26	0	27	
Total			154		164	

#	Effort	Category	Short Name	Item Description	Acceptance Criteria				
52	8	Advanced Knowledge	Advanced knowledge about reader, tablet and RFID tags	As a developer, I know how the tablet, the RFID reader and the RFID-tags work together in order to be able to use this hardware with our application.	Developer know how the reader, tablet and RFID tags work together. E.g. how is the RFID from the tag transfered to the application?				
53	3	HW MGMT	Basic Sorting (Desktop)	As a 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 autmomaticaly sorted alphabetically.				
54	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.				
55	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.				
56	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.				
57	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.				
58	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.				
59	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.				
60	3	User MGMT	Save password	As an user, I can save my password in order to use the "login automatically" function.	The user can save his/her password.				
61	3	User MGMT	Login automatically	As an user, I can login automatically in order to save time in case the website is accessed very often.	The user can activate the automatic login with activating a checkbox "login automatically". For the next access to the website, the user doesnt need to fill in his/her password.				
62	5	Advanced User MGMT	Admin page "User MGMT"	As an admin, I can open a page in order to have an overview of the registered users.	A page "User MGMT" can be accessed by an admin. On this page all of the user and metadata are listed.				

#	Effort	Category	Short Name	Item Description	Acceptance Criteria				
63	2	Advanced User MGMT	Reader group as default value	As an user, I am automatically assigned to the "reader"-user group in order to minimize effort for the admin and to have access to the information immediately.	After the registration, the user automatically is assigned to the user group "reader". The user can find this information on his/her basic profile.				
64	2	Advanced User MGMT	Application for writer-group	As an user, I can apply to get into the "writer"-user group in order to be able to change information in the database.	The user can apply to get into the "writer" user group easily. For example: On the basic profile - next to the information about the current user group - is a button "Apply for writer-group".				
65	5	Advanced User MGMT	Basic assignment of users to user groups	As an admin, I can switch users into different right MGMT groups in order to control who can manipulate data.	A page "all users" can be accessed by an admin. On this page all users are listed. Multiple users can be marked at once (e.g. with a check box for every user). With one click on a button ("Switch to reader", "Switch to writer") all marked users belong to the chosen user group.				
66	3	Advanced User MGMT	Advanced assignment of users to user groups	As an admin, I can switch users into different right MGMT groups in order to control who can manipulate data.	A page "writer applications" can be accessed by an admin in the admin mode. On this page all users who applied for the writer-user group are listed. Multiple users can be marked at once (e.g. with a check box for every user). With one click on a button all marked users belong to the writer-user group.				
67	3	Advanced User MGMT	Rights of the reader	As an reader, I can see the information of the database in order to find HW.	The reader can see all data sets. He also can use the searching and sorting functions.				
68	3	Advanced User MGMT	Rights of the writer	As an writer, I can change the information of the database in order to have the current state of the DB.	The writer-group includes all rights of the reader group. Additionally a writer can add, change, and delete data sets.				
69	3	Advanced User MGMT	Rights of the admin	As an admin, I can manage the user groups, HW and locations in order to ensure nonredundant and correctsness of data.	The admin controls the user groups. He can decide who has a reading or writing right. He adds new HW and locations and changes/deletes not relevant data. For the user groups this should e.g. look like like a table. The first column provides the name/id of the employee. The next column the right to read and the next one the right to write. The admin can click on the check box in these columns to give/take an user a specific right.				

#	Effort	Category	Short Name	Item Description	Acceptance Criteria				
70	3	Advanced User MGMT	Login App	As an user, I can login to the app in order to add/change data.	Before the user can access the app, s/he has to login with his/her user data. Afterwards data can be added/changed.				
999	100	EPIC	Page numbers for all tables	As an user, I can decide if I would like to see the whole table or 100/50/30 entries per page.	NA				
999	100	EPIC	CSV Import	As an admin, I can transfer the data from an excel-sheet into the database via a CSV Import.	NA				
999	100	EPIC	Details of Hardware	As an user, I can see where the hardware is and who it holds.	NA				
999	100	EPIC	Hardware error	As an user, I can see if an error occured by using the hardware.	NA				
999	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				
999	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				
999	100	EPIC	Advanced Search	As an user, I can combine search criteria (e.g. model and office) to restrict the outcome of the search.	NA				

#	Rel.	Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
45	2	2	Admin Room MGMT	Editing rooms advanced	As an admin, I can edit a room and afterwards will be forwarded to the main list in order to improve the user experience.	If the user clicks on the save button s/he will automatically forwarded to the main list and a message "data was saved" can be seen.	Liping Wang, Andreas Singer
46	2	3	Admin Room MGMT	Adding rooms	As an admin, I can add rooms in order to have the current state of the DB.	An add button can be found above the list of rooms. If the admin clicks on this button he will be forwarded to another page (same page like in feature "Editing Rooms") where he can edit Room-ID and Side. A save button has to be implemented as well. If the user clicks on the save button s/he will automatically forwarded to the main list and a message "data was saved" can be seen.	Liping Wang
47	2	5	Admin HW MGMT	Editing HW	As an admin, I can update the different HW in order to have the current state of the DB.	For every HW there is an "edit" button in the same line. If the admin clicks on the "edit" button he will be forwarded to another page where he can edit different metadata. A save button has to be implemented as well. A link back to the page "room mgmt" is needed. If the user clicks on this link, the new HW information can be seen in the list. If the user clicks on the save button s/he will automatically forwarded to the main list and a message "data was saved" can be seen.	[subject to change]
48	2	3	Admin HW MGMT	Adding HW	As an admin, I can add HW in order to have the current state of the DB.	An add button can be found above the list of HW. If the admin clicks on this button he will be forwarded to another page (same page like in feature "Editing HW") where he can edit metadata. A save button has to be implemented as well. A link back to the page "HW MGMT" is needed. If the user clicks on this link, the new HW information can be seen in the list.	[subject to change]

#	Rel.	Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
49	2	1	Admin HW MGMT	Required fields	As an admin, it is required to fill out some of the fields in the HW MGMT in order to have a organized list.	It is not possible to leave the fileds "RFID-ID" and "Part Number" blank while adding or editing a HW. If the fileds are empty, a message like "Fill in reqired fields 'RFID-ID' and 'Part Number'!" is visible.	[subject to change]
50	2	2	Admin Employee MGMT	Admin page "Employee MGMT" with functions editing, deleting and adding	As an admin, I can open a page Employee MGMT" in order to have an overview of the existing employees and to update the DB to the current state.	Admin page "Employee MGMT" can be opened to give an overview of all employees. The functions editing, deleting and adding are possible and have the same functionality as in the "Room MGMT". After editing or adding an employee, the user will automatically forwarded to the main list and a message "data was saved" can be seen.	Liping Wang
51	2	8	Basic Knowledge	Basic knowledge about reader, tablet and RFID tags	As a developer, I know how the tablet, the RFID reader and the RFID-tags work in order to be able to use this hardware with our application.	Developer can answer questions like: 1. Have RFID tags already an unique id or do it have to be implemented? 2. Can the reader easily be installed on the pc without any specific software from the provider? 3. Can HW easiliy be put together? Problems with different operation systems? 4. Are the functions of the reader and RFID tags understandable? 5. Is documentary understandable? 6. Can developer work with the tablet, reader and RFID tag?	David Lehmeier

#	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 stakeholde 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

#	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

#	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

#	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	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 the record which s/he was looking for is visible.	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 bee 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 updatet. Therefore the user is able to see her/his changed record on the website.	Andreas Singer
31	1	5	3	8	HW MGMT	Improved 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	5	3	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	5	5	App GUI	Select office/employee/	As an user, I can select the office/room/employee where the HW is located in order to update the record.	Possible offices/rooms/emplyoees are shown and one can be selected by the user f.w. within a combobox.	Andreas Singer, David Lehmeier

#	Rel.	Sprint	Est. Effort	Real Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
34	1	5	3	2	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 listet.	Andreas Singer
35	1	5	8	5	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	5	2	2	Documentation	Javadoc	As a developer I can see the Javadoc Documentation in order to document the developed code.	Documentation is written.	Liping Wang
37	1	6	2	2	Basic Dev	Make Desktop site the root site	As an user, I can find the Desktop website in the root in order to get a better user experience.	App site is not anymore the root site. The Desktop site should be the root site now.	Andreas Singer
38	1	6	5	5	DB Dev	Expansion of DB and DeviceDatabase	As an admin, I can see the enhanced DB in order to have the final state of the DB for development.	There is an existing "Room", "User" and "Hardware" table. All of them have the final size of columns. ## Tables: Room: Side, Room-ID Hardware: rfid id, employee, room, part number, serial number, inventory number, owner, comment HW Metadata: unique id, part number, category, type, manufacturer, platform	David Lehmeier, Andreas Singer
39	1	6	5	5	Memory Dev	Searching in memory	As an user, I can search many times and only one time the DB will be accessed in order to get a better performance.	DB will not be accessed each time.	Andreas Singer

#	Rel.	Sprint	Est. Effort	Real Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
40	1	6	2	2	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 search for different criteria (manufacturer, type, platform, room, inventory number) 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.	Andreas Singer
41	1	6	1	2	Admin Dev	Admin sub menu	As an admin, I can see the sub menu in the admin part of the website in order to get a better user experience.	Sub menu for the admin exists.	David Lehmeier
42	1	6	3	3	Admin Room MGMT	Admin page "Room MGMT"	As an admin, I can open a page in order to have an overview of the existing rooms.	A page "room MGMT" can be accessed by an admin. On this page all locations are listed. The attributes for every location are Room-ID and Side.	Liping Wang
43	1	6	3	3	Admin HW MGMT	Admin page "HW MGMT"	As an admin, I can open a page in order to have an overview of the existing HW.	A page "HW MGMT" can be accessed by an admin. On this page all of the HW and metadata is listed.	Andreas Singer

#	Rel.	Sprint	Est. Effort	Real Effort	Category	Short Name	Item Description	Acceptance Criteria	Responsible team member/s
44	1	6	5	5	Admin Room MGMT	Editing/deleting rooms	As an admin, I can update and delete the different rooms in order to have the current state of the DB.	For every location there is an "edit" and a "delete" button in the same line. If the admin clicks on the "delete" button he has to approve the deleting again. The deleting function for the Admin HW MGMT is automatocally implemented, too.If the admin clicks on the "edit" button he will be forwarded to another page where he can edit Room-ID and Side. All fields have to be filled, so they are required. A save button has to be implemented as well. A link back to the page "Room MGMT" is needed. If the user clicks on this link, the new location can be seen in the list.	Liping Wang, Andreas Singer

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).	Solved. HW is available.			
3	There were some problems with jUnit. It was hard to understand and to write test cases.	Solved through teamwork/talking.			
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 reponsibility 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.	Talked with Hannes about that. He is aware of it and everybody will get the feedback at the same time.			
5	Liping would like to do more tasks in the next sprint.	Liping will get more tasks.			
5	It is difficult to decide which developer will be responsible for which feature in the sprint meeting because of knowledge and time issues.	Responsibilities will be added in the Feature Archive if it is not possible to decide these before.			
6	No Problems :)	No problems can not be solved ;)			
7					
8					
9					
10					
11					
12					
13					

Sprint	Scrum Master	Review & Release Manager
1	Jana Riechert	*(Not needed because only organiztional tasks were fulfilled.)*
2	Kerstin Stern	Liping Wang
3	Andreas Lutz	David Lehmeier
4	David Lehmeier	Andreas Singer
5	Andreas Singer	Liping Wang
6	Liping Wang	David Lehmeier
7	Jana Riechert	Andreas Singer
8		
9		
10		
11		
12		
13		