Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Administrativia		
This Doc	http://goo.gl/IbzSsa	
Live Service	http://osr-amos.cs.fau.de/	
Code repository	https://github.com/Jather90/AMOS_proj5	
Industry Partner Meetings	09.04.2014	General Requirements and Expectations:
		http://goo.gl/hyQLo1
	23.04.2014	Requirements Simulation:
		http://goo.gl/2bA7RL
	07.05.2014	Updated Requirements and Expectations:
		http://goo.gl/V87qSH
	14.05.2014	
Example		
http://goo.gl/FRfym		

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Product Vision
The Green Energy Cockpit is a Web-Service that offers the analysis, planning, controlling and simulation of a company's energy consumption. It provides the users with a user-friendly UI and enables them to analyse, plan, control and simulate the needed energy of their production processes according to different parameters in a well-arranged way.
Our vision is to create a product that is easily understandable and user friendly, with an attractive UI. We want to provide a clear tool that is intuitive to use and therefore eases energy controlling in production firms for managers.

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Product Glossary	
Term	**Definition**
Analysis	In the green Energy Cockpit analysis enables the user to analyze the energy consumption of the company's machines according to different parameters. It is one view that can be picked on the starting site in the green Energy Cockpit
Bookmarks	Can be either browser bookmarks or booksmarks directly integrated in the website and the user's account. Both with the same functionality: saving a previous report's filters/paramaters
Default Report	A report that can be ran only with the presetted default values, without any modification.
Energy	In the Green Energy Cockpit, energy refers to the energy consumption of the producing plant. The energy is continously tracked by several energy meters attached to the producing machines and saved into a database.
Energy Cockpit	In reference to a cockpit's dashboard: A structured way to display different kinds of data for Energy consumption, forecasting and planning.
Forecast	In the green Energy Cockpit forecast offers the user to plan energy consumption in the future, to compare actual and planned energy consumption and the automatic adaption of the planned energy consumption to the actual consumption. It's one view that can be picked on the starting site in the green Energy Cockpit
Parameter	In the Energy-Analysis and Energy-Forecast a parameter is an adjustable setting in order to execute the analysis/ forecast according to the factors WHERE/ WHEN/ WHAT FOR
Simulation	In the green Energy Cockpit simulation can be used as the foundation for the future energy planning and the forecast. The simulation allows the specific adjustment of different machines and product in the production. It is included in the Forecast view.

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool
Release Plan

Release	4
No Sprints	12
Due Date	08.05.2014

Sprint #	Theme	User Stories	Est. Effort	Burn-Down	Real Effort
0				65	
1	Basic Visitor Self-Admin	1, 2, 3, 4, 5	9	52	13
2	Redesign & Database Integration	7, 8	4	48	4
3	Database development	18, 19, 20, 21	18	31	17
4	Energy Analysis	10, 16, 22, 25	14	17	14
5	Energy Analysis	17, 23, 29, 34, 35, 36	20		
6					
7					
8					
9					
10					
11					
12					
Total			**65**		**48**

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Product Backlog					
#	**Effort**	**Category**	**Short Name**	**Item Description**	**Acceptance Criteria**
6	5	Visitor Self-Admin	Password-Change	As a logged-in user, I can change my password.	After changing my password, my new password is registered.
13		Energy-Analysis	Parameter Drag & Drop	As a logged-in user, in the Analysis function, I can drag + drop the desired parameters into a field in the desired order. This has the sam functionality as user story 34, but is more convenient tu use.	The different parameters can be dragged + dropped in the desired field. After dropping them, the parameters are selected for the analysis.
14		Energy-Analysis	Filter parameter values	As a logged-in user, after setting the parameters (time/ place/ product), I can filter for more detailed results via a dropdown menu according to my needs.	The chosen data changes according to the filtered parameters.
24		Energy-Analysis	Report bookmarks	As a logged-in user, I can save a combination of filters and parameters as a bookmark.	After selecting a bookmark, a new report with the bookmarked parameters and filters is displayed.
26		Energy-Forecast	Entering and saving target values	As a logged-in user I can enter estimated target energy values (in kw/h) via a free text field. This can be done for every month in a year, or in a more detailed way (i.e. every day). If it's entered monthly, the website calculates an average daily value.	After entering, the target energy values will be saved to the database as target values.

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Product Backlog					
#	Effort	Category	Short Name	Item Description	Acceptance Criteria
27		Energy-Forecast	Forecast-Parameters	As a logged-in user, I can select the parameters (time interval) and values that should be used by the forecasting-alorithm.	After selecting the forecast function I can select the different parameters/values for the forecast.
28		Energy-Forecast	Forecast-Algorithm	As a logged-in user, I can choose to display a forecast according to the selected parameters (described in User Story 27) by hitting the "Submit" button.	After selecting the forecast function and hitting the "Submit" button the forecast according to the selected parameters a forecast will be displayed.
30		Energy-Simulation	Machine Selection	As a logged- in user, I can choose between different machines (via dropdown) for the energy simulation.	After selecting the machine for simulation, the wanted machine is selected
31		Energy-Simulation	Product Selection	As a logged- in user, I can choose between different products (via dropdown) for the energy simulation.	After selecting the product for simulation, the wanted machine is selected
32		Energy-Simulation	Simulation Algorithm	As a logged-in user, I can choose to display a simulation according to the selected machines and products.	After selecting the simulation function the simulation according to the selected parameters a simulation will be displayed in a diagram.
33		Energy - Forecast	Simulation Inclusion	As a logged-in user, I can include the simulation results in the Energy - Forecast.	After choosing the inclusion of the simulation in the forecast the forecast with the simulation resulst will be displayed in a diagram.

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Product Backlog					
#	Effort	Category	Short Name	Item Description	Acceptance Criteria
~~9~~	~~8~~	~~Database~~	~~Dummy-DB~~	~~In order to start designing the web service a data dummybase needs to be created~~	~~A dummy database according to the Business Partners' requirements is created.~~
~~11~~		~~Extract, Transform, Load~~	~~ETL~~	~~As a logged-in user, I can preview the transformed data in a database view.~~	~~After selecting the right parameters, the database can be previewed in a seperate view.~~
~~12~~		~~Energy-Analysis~~	~~Parameter selection~~	~~As a logged-in user, I can choose from a range of different parameters to use for the analysis (WHERE, WHEN, WHAT FOR)~~	~~The analysis runs according to the preselected data.~~
~~15~~		~~Energy-Analysis~~	~~Result View~~	~~As a logged-in user, I can see the results of the analysis in a table view.~~	~~After running the anaylsis, the results are displayed in the way preselected by "Parameter Selection", "Drag & Drop" and "Filter"~~

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Sprint Backlog							
#	Rel.	Effort	Category	Short Name	Item Description	Resp.	Acceptance Criteria
17	5	3	Energy-Analysis	Diagram annotations	As a logged-in user, I can choose to display the diagrams with detailed data. For this, there should be an implementation of several settings like displaying percentage, changing colors, titles, etc.	Jakob Sven	After selecting the detailed view, all results will be displayed in the chosen diagram type annotated with the necessary data.
23	5	2	Energy-Analysis	Default reports	As a logged-in user, I can select default reports for the given data. This could be i.e. a query for a certain machine which needs to be done regularly by many users.	Dimi	After selecting a default report, the data is displayed according to the report.
29	5	8	Energy-Analysis	Import	As a logged-in user, I can import CSV Data over an HTML-mask in a database using an import button. The CSV file needs to be structured as the running database.	Dimi	After selecting the import function the data is loaded into the database.

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Sprint Backlog							
#	Rel.	Effort	Category	Short Name	Item Description	Resp.	Acceptance Criteria
34	5	3	UI	Query Buttons	As a logged-in user, I can select the different possible parameters from checkboxes/radio-buttons/etc. in order to select the energy data that needs to be queried. The necesarry parameters are therefore grouped in 3 groups: (1) Time (2) Product (3) Machine; These groups can be broken down in their smaller units.	Jakob	I can select the parameters (time/ product/ machine) I need for the query according to my needs.
35	5	2	UI	Granularity Buttons	As a logged-user, I can select the granularity of the query before submitting it. By doing this, I can i.e. display the results not in Energy/month but tather in Energy/day, etc.	Jakob	I can select the granularity of the query according to my needs (time: year, month, day).
36	5	5	Database	Runinng the query	As a logged-in user, I can run the query by hitting the "Submit" button. The parameters selected in User Story 34 are then used by the website in order to create a database query. Furthermore the granularity described in User Story 36 is considered.	Sven	After hitting the "Submit" button, the results of the query according to the selected parameters and granularity are displayed in a diagram/table.

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Sprint Backlog							
#	Rel.	Effort	Category	Short Name	Item Description	Resp.	Acceptance Criteria
Sum	20						

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Feature Archive									
#	Rel.	Sprint	Est. Effort	Real Effort	Category	Short Name	Item Description	Resp.	Acceptance Criteria
1	1	1	2	3	Visitor Self-Admin	Website Skeleton	As a guest, I can visit the website, when I enter the URL.	Sven	After visiting the website I will get an empty page and no error.
2	1	1	2	2	Visitor Self-Admin	Layout	As a guest, I can navigate through the website easily.	Sven	The website has an intuitive layout/design and an unexperienced user can navigate through it without any problems.
3	1	1	3	2	Visitor Self-Admin	Register	As a guest, I can register on the site, to become a user and get access to user functionality	Jakob	After registration, my newly created account is available right away and I can login
4	1	1	3	5	Visitor Self-Admin	Login	As a guest, I can login using my user account to get access to user functionality	Dimi	After logging in, I have access to user functionality
5	1	1	1	1	Visitor Self-Admin	Logout	As a logged-in user, I can logout to free up the computer for some other person	Dimi	After logging out, I have loose access and can only regain it by logging in again
7	2	2	3	3	UI	UI-Redesign	The homepage needs to be graphcally redesigned	Jakob	The homepage's design is improved.
8	2	2	1	1	UI	UI logic adaptation	The new graphical design needs to be merged with the logic.	Sven	The homepage's new design is merged with the logic.
18	3	3	5	5	Database	Creation Dummy-DB	As a user, I can select an empty database for the different functions of the website.	Dimi	In the different functions of the website, there is a first Database selectable (no data).

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Feature Archive									
#	Rel.	Sprint	Est. Effort	Real Effort	Category	Short Name	Item Description	Resp.	Acceptance Criteria
19	3	3	3	2	Database	Filling DB with data	As a developer, I can upload data in .csv/.xls(x) format into the database.	Dimi	After filling the database, the relevant data will be in the database.
20	3	3	5	5	Energy-Analysis	DB-Query	As a user I can query data according to a filter from the database.	Sven	After the query, data will be filtered according to the filter.
21	3	3	5	5	Energy-Analysis	Table View Display	As a user I can display the queried data in a table view.	Jakob	After choosing the "Table View Display" function, the data will be displayed in a table view.
22	4	4	5	5	Energy-Analysis	Bar Chart Display	As a user I can display the queried data in a bar chart.	Jakob Sven	After choosing the "Bar Chart Display" function, the data will be displayed in a bar chart.
25	4	4	5	5	Energy-Analysis	Report download	As a logged-in user, I can download the results of the report.	Dimi	After selecting the download function, the results of the report will be downloaded.
10	4	4	1	1	Navigation	Choose functionality	As a logged-in user, I can pick from the different functions of the cockpit.	Sven	After clicking the desired function's button I am forwarded to the correct subpage.
16	4	4	3	3	Energy-Analysis	Additional Diagram Display	As a logged-in user, I can choose to display the results of the analysis in different diagrams.	Jakob Sven	After selecting the desired diagram type, the results of the anaylsis are displayed in the chosen diagram type.

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Impediments					
#	**Category**	**Description**	**Date**	**Resolution/ Progress**	**Status**
1	Database	No information about the data, data structures, database and interfaces was provided by the industry partner yet.	**16.04.2014**	We got some information about the data from our industry partner, but this is still not detailed enough. Tobias and Toni hope to be able to provide us with data by this week. Otherwise our Software Developers really have a problem with developing.	**in progress**
			23.04.2014	We received dummy data which is fine for the moment, but we are still waiting for additional/final data.	
			07.05.2014	The data is still incompletet but we should receive the rest by friday. If we don't receive the data by Friday, we are allowed to construct our own data.	
2	Energy-Analysis	Intentionally we wanted to use Google Charts to display the results of the energy analysis. The industry partner is not confident with this solution because they fear security issues regarding their data.	**23.04.2014**	We found JFreeCharts as an alternative. Still need to check whether it's possible to implement them.	**resolved**
			30.04.2014	We need to check if the industry partner is satisfied with this solution.	
3	Energy-Analysis	There is still an uncertainty about the way the energy meters track and later save the energy consumption of	**23.04.2014**	First impression from the dummy data, but still needs to be clarrified.	**critical**
			07.05.2014	Still no information.	

Team 5 - FAPS Green Energy Cockpit - AMOS - Planning Tool Roles		
Sprint	**Review & Release Manager**	**Scrum Master**
1	Huprich, Sven	Wiebe, Cindy
2	Abb, Dimitri	Niedermeier, Ferdinand
3	Huebler, Jakob	Huprich, Sven
4	Huprich, Sven	Abb, Dimitri
5	Abb, Dimitri	Huebler, Jakob
6	Huebler, Jakob	Wiebe, Cindy
7	Huprich, Sven	Niedermeier, Ferdinand
8	Abb, Dimitri	Huprich, Sven
9	Huebler, Jakob	Abb, Dimitri
10	Huprich, Sven	Huebler, Jakob
11	Abb, Dimitri	Wiebe, Cindy
12	Huebler, Jakob	Niedermeier, Ferdinand