Project Name	...
This Doc	https://goo.gl/8OXCNU
Live Service	https://osr-amos.cs.fau.de/ss16/proj9/
Test environment	https://osr-amos.cs.fau.de/ss16/proj9-test/
Code repository	https://github.com/alexbtk/amos-ss16-proj9.git
Additional materials	...
Example	http://goo.gl/FRfym
Organisational documentation	https://drive.google.com/open?id=0B3OpF343C9URSzVEdjVmUnlaUWM

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Product Vision
Curently information about any given company is readily available from proprietory sources in a structured way. However there is a lot of information available externally in an unstructured way (for example news, tweets, etc). The goal of the the project would be in structuring of the external data in a way that can be used to enrich the data factors available in proprietory sources helping in creating credit profile of a company. Ultimately in future the results of the project will be used for automation of process of corporate risk assesment, support knowledge workers, take out cost of the process, bring out the knowledge about a company in the right time for credit decision making. The project aim would be to develop a web service using the IBM Bluemix platform using opensource language and database of the developers choice . The cognitive services of Watson would be used for accessing the unstructured data , which can be used or mapped with proprietory sources of structured data to provide insightful information .

Term	Definition
Pre-defined question	A question relevant to the credit profile of a company, which was pre-defined together with the requestor, on which the App was "trained" to provide relevant answers
GUI	Grafical user interface, web page for user to interact with the software
MM	minutes of meeting
API	Application Program Interface (IBM APIs available at BlueMix platform to be used for development of the application)
Inputted company	The company which the user would like to get an insight on, therefore they input this company to the search field on the GUI interface
Sentiment	Qualitative assesment of the information, resulting into evaluative statement in regard to this information (e.g. information has positive or negative connotation)
Social media	In context refers to networking platforms of twitter .
credit-worthiness	In context refers to the weighted average sentiments from a company's twitter , news and competitors ranges from a scale of -2 to 2 .

#	Size	Category	Short Name	Item Description	Acceptance Criteria	Comment	Developer's comments
123	1	Data processing	Creditworthiness_add competitors	As a user I would like that another factor - sentiment of copetitors - is added to creditwithiness formula, in order to receive more precise reselt	The formula has 1 additinal component (competitor sentiment, average)	Dennis	
126	1	GUI	Creditworthiness_add competitors_adjust GUI	As a user I would like that another factor - sentiment of copetitors - is added to creditwithiness GUI, in order to receive more precise reselt	Additional slider is added with the text field saying "competitors avarage sentiment"	Dennis	
116	1	GUI clean-up	Welcome screen_add "please wait message"	As a user I need a notification showing me that the search in DBpedia is ongoing in order to avoid the operation mistakes	Add "please wait" while waiting for autocomplete list from DBpedia on welcome screen	Denis	
101	1	GUI clean-up	Log out_credentials	As a user I would like to have the credentials deleted when I log out in order that another user can enter his own credentials	Whe I log out there is a log in screen with empty fields for credentials	Ion	
25	3	Data processing	Concept insight	As a software developer I would like to use DB pedia information (for example short description of the company) and feed it to Concept insight service do I can get related documents in order to explore the possibilities of the API for later use	Relevant documents are returned coresponding to inputted abstract. Output to console. (return documents based on "initial standard document", POs then can asses if the documenst are relevant/usufull)	** I guess we are leaving out data processing ??	
59	new	Data processing	Concept insight_output + collpsable window	I as a user would like to scroll through content of document [returned by concept insights] to eveluate which of the documents might be interesting for me	There are collapsable windows in the GUI which I can open and see contect of the documents	** I guess we are leaving out data processing ??	
97	new	Data processing	Concept insight_Refine existing features	As a software developer I would like to use explroe is the results of the concept insight can be used to refine existing functionality in order to increase relevance and precision of the features	The output of concept insight was applied to receive more precise information on company's products or to refine the competitor list. At least one featire was tried to be refine with concept insight. In case of sucess, the results are shown as enhanced information on the GUI, if unsuccessful, reported on the meeting		
104	new	GUI	GUI personalization	As a user I would like to be able to personalize the GUI view by being able to "drag" and moce the element, make them smaller or bigger in order to accomodate the dashboard for my convenience	When I press the element there is a possibility to drag it and fix the new position as well as adjust the size of teh element	not feasible in sencible timeline	
82	new	GUI	Dashboard_twiter screen element_graph	As a user I would like to have a graph showing the sentiment on the tweets over time in order to get an insight on dynamics of change	There is a graph with corresponding information	might not be usefull, tweets are generated every second	
96	new	Data processing	Twitts for competitors	As a user I would like to be able to get twitts for competitors in order to get an insight of the socail media opinion on my competitors	The information on twitts and twitts sentiments is ready for usage in the gui. Possible to view in console	might not be usefull, too many twitts seraches will be needed - eat up the quota	
96	new	Data processing	Dashboard_competitor screen_twitts	As a user I would like to be able to see twitts of competitors in order to compare with twtts on own company	The twitts are displayed in the same manner as in case with own company	might not be usefull, too many twitts seraches will be needed - eat up the quota	
110	new	GUI	Help section	As a user I would like to have a container stating 'Help' similar to the existing containers of features of Competitors , Company etc .	On clicking the '->' button of the container I get access to FAQ questions about using the services of the website .	please check with the three help description which one you think suits better .	
111	new	GUI	Help section	As a user I would like to directed to a small 'Help' button on clicking the settings symbol on the upper right corner of the task bar .	On clicking the Help' button of the container I get access to FAQ questions about using the services of the website .		
112	new	GUI	Help section	As a user I would like to have a help tab on the upper taskbar before logout and back	On clicking the Help' tab of the container I get access to FAQ questions about using the services of the website .		
113		Data processing	Help section	As a user I would like to have a short user manual fed to FAQ question describing the usage of different services	There is an XML document that provides information 'What service each container on the GUI provides ? eg - 'What do products provide ? ' , Description of different options available under each Container and what results they provide , How to get a creditworthiness - Index for my firm ?	we need to design a document with FAQ questions .	
112	new	Data processing	Find "viral" news/sentiment anaysis on recent develoments_RESEARCH	As a user I would like to know what is trending right now on social media (twitter) in order to know if, for example, my company's new product lauch. is being actively discussed/shared on twitter	Use "recent developmets" from IBM API and feed it to seacrh function in twitter in order to find out if it is trending rights now	feasibility study is needed** please check with guys if its possible to do as its the last sprint .	
49	2	GUI element	Company competitors_geografical structuring	As a user I would like to get company competitors as a structured list, categorized by the region of presence in order to be able to understand if this competitor is relevant for my company geografically	I can see additional tab for geografical view. In the tab I can see grouping by countries -> if I expand, I see check boxes with companies names	** looks a good point but how about the complexity ??	

#	Size	Category	Short Name	Item Description	Acceptance Criteria	Comment	Developer's comments
95	new	GUI element	Dashboard_competitor screen element_Competitors filter	As a user I would like to be able to apply filters in order to be able to refine the list of competotors	There is a "Competitors advanced search" tab -> the table is shown with 3 columns (full list of competitors, industry, country) - > by clicking on industry/country I can apply filter -> the list is shortend to items which match my filter		
106	new	GUI	Dashboard_company screen_recent developments section	As a user I would like to have expendable windows containing the full context sentence near the recent developments items in order to be able to understand in which context the recent development was mentioned.	There is an expandable window near the "launched new products" item with teh full sentence and URL where this phrase was contained		
109	new	GUI	Back button	As a user I should be able to use a 'Back' button inorder to return to the main or welcome page in order to improve usability	The 'Back' button is on the upper taskbar at the side of 'logout' option .		
115	new	GUI	Drop-downlist fixation	As a user I would like to have the drop down menu right below the search box .	The current issue with the dropdown list below the search box needs to be fixed .		

#	Rel.	Size		Short Name	Item Description	Acceptance Criteria	Responsible	Comment

#	Rel.	Sprint	Est. Size	Real Size	Category	Short Name	Item Description	Acceptance Criteria	Responsible	Comment
1	2	2	3	3	Data collection	Draft question	As a user I would like input any company name into the input field of the user interface and see the answer to the question "What is the industry the company offers?" "What is the main product"	In the command line the information answering this question is shown.	Dennis	
2	2	2	5	5	Development nfrastructure	Build automation software	Choose an appropriate build automation tool	Tool is chosen and the choice is documented	Alexey	
3	2	2	0	0	Development nfrastructure	Configure environment	As a software developer I need to configure the build environment to be able to automate build process	Build environment is configured	Alexey	
4	2	2	0	0	Development nfrastructure	Docker Hub	As a software developer I need to create a Docker Hub account to use it in the build process	full name of your image is sent to oss-amos@group.riehle.org	Alexey	
5	2	2	1	1	GUI	Web page design	As a user I need a Web user interface with an input field so I can enter a name of the company interesting to me and see what are the available pre-defined question (s); below I can also see the results area	Page can be accessed,it has an input field to enter company name, "go" button, the pre-defined questions (placeholders) can also be seen, the result area is present underneath.	Ion	
6	2	2	0	0	GUI element	Check box of the pre-defined questions	As a user of the Web page I would like to be able to mark the question (s) from the pre-defined question(s) I would like to receive answer on, in order to narrow down or broaden the information the App returns	There are check boxes on the screen with the pre-defined questions available, boxes can be checked	Ion	
7	2	2	1	1	GUI	Company name and check box validation	As a user I need to make sure that the company name field and check boxes are validated so I do not make input mistakes	When pressing the "go" button, the input field is checked to have minimum 1 sign, maximum 100 signs. If yes, the next action is initiated, it no - a warning sign apperas "Please, check that the company name has from 1 to 100 signs"; it is also checked if at least 1 check box is checked. If no - a warning sign apperas "Please, check at least 1 of the pre-defined questions"	Ion	
9	3	3	3		Data processing	News	As a software developer I should be able to offer the data recieved within a particular time frame. for example : What is the latest news updates within a week and offer sentiment analysis on the news .	There is a option to view latest news and view as options of positive or negative , as well as drill down to view the content of either .(The extracted data can be used for analysing several data factors for example - lawsuits , new buisnesses , change in leaderships) which can affect the credit rating of a company .	Ion	
14	3	3	5		Data collection	Competitors list	As a user I would like to receive answer to "Which are the competitors of the company" based on the news	Competitors of the inputted company are shown	Ion	
28	4	4	4	5	Data collection	Social media sentiment	As a software developer I would like to get posts from twitter concerning the inputted company in order to later use them for sentimant analysis	Twitter posts where the inputted company was mentioned are collected and can be used to fed the sentiment analysis service	Alex	

#	Rel.	Sprint	Est. Size	Real Size	Category	Short Name	Item Description	Acceptance Criteria	Responsible	Comment
10	4	3	3	3	Data processing	Social media sentiment	As a software developer I should be able to to get data about the inputted sompany from social media and classify it to positive and negative sentiments	There is a tab to view the positive and negative sentiments within a given time frame. (sentiment analysis on a scale of -1 - not good , +1 good , +2 - very good)	Alex	
27	4	4	3	2	Data colection	Structured Information	As a user I would like to know list of products my company offers.	Collection of list of products about the company from DBpedia.	Dennis	
29	4	2	2	2	Data collection	Structured Information	As a user I would like to have a short description of my searched company .	Collection of a short abstract about the company, from dbpedia and display it on user interface .	Dennis	
17	4	3	3	2	enhancement for #1	Web site template	As a software developer I would like to make sure that the url used to feed the Alchemy service for "Main product search" is universal in order to be able to use without mistakes. (curently implemented under assumtion that a site has ".com")	Information is retrieved from other sites (for example.org)	Dennis	
26	5	5	5	5	Data collection	Competative products	Seacrh news on the main product, - > find competitor products based on news	List of the inputted company's products is returned to the answer space on the web page. Next to each product there is a list of competing producst and the companies that produce them. Example wuld be: Iphone 5 -> Lenovo S60 (Lenovo), Samsung Galaxy (Samsung)	Ion	
11	5	5	8	8	Input verification	Company name verification	As a user, when I input the company name, I would like to be offered the dropdown list of valid company names in order to get relevant serach results (structured data sourse can be used for verification, for example DBpedia)	There is a drop down list in the GUI screen after I enter the company name with entries to choose. In case no macth is found, just proceed	Dennis	
21	5	5	5	5	Data processing	Product sentiment analysis	Based on the competitors products I as a user would like to receive sentiment analysis on "own" and competitors' products from the social media. This information is useful to me in order to get insight of how much do people like one or another product.	The list of products of "own company" and competitors is shown together with sentiment analysis on a scale of -1 - not good , +1 good , +2 - very good . sentiment is analysed based on news	Ion	
33	5	5	3	2	Data processing	Tone Analysis	As a user I would like to explore the services of the Tone analyser API	I should be able to insert a simple piece of tweet about a company and explore the sentiments	Dennis	
38	6	6	2	2	GUI element	login form	As a user I should be able to input my API key to ensure sucessful search per my request .	There is a login form with cookies .	Dennis	
46	6	6	1	1	Data processing	Backend for API input field	As a software developer I need to make sure there is a backend functionality to be able to input user API keys	After inputting the users API the search request is sucessfully executed	Dennis	

#	Rel.	Sprint	Est. Size	Real Size	Category	Short Name	Item Description	Acceptance Criteria	Responsible	Comment
30	6	6	2	2	GUI element	Expandable window	As a user I would like to be able to view posts from twitter about the inputted company in an expandable window in the GUI in order to save time by avoiding copying and pasting the link into separate window.	Already available: after the execution of the search request, the link(s) to the post(s) is shown. Expected: there is an "expand" button/arrow near the link which I can click on and the expandable area appears underneath showing the text filed with the content of the post.	Alex	
39	6	6	2	2	GUI element	Competitor question	As I user I would like to see on display my competitors .	There should be a checkbox'What are the competitors of the company ?' and the search results in showing a text field with list of competitors .	Ion	
40	6	6	1	1	GUI element	Competitor question sub-categorization .	As I user I would like to see on display my competitors on a general search .	There should be a dialog box for industries .	Ion	
41	6	6	3	3	Data processing	Competitor question sub-categorization .	As a user I would like to get an advanced search on my list of competitors	When I click on particular industry I get competitors on that industry on the dialog box .	Ion	
42	7	7	2	2	GUI element	Slider for twitter posts	As a user I should be able to view the sentiment of my company as a visual display and not the current numerical display .	There is a slider that shows a scale of a positive sentiment in green and negative sentiment in red . , after execution, the information should be provided in form of a slider.	Alex	
60	7	7	2	2	GUI element	Grouping by sentiment_tweets	As a user I would like to get the tweets grouped by catagory - negative/positive	When I ask for twittwer post sentiments, I have different categories for negative and positive. I have 3 tabs, "green", "yellow", "red". I click on one tab, i get only "green" results for examples. Value range: fixed, tbd	Alex	
56	7	7	1	1	GUI element	Total sentiment	As a user I should be able to compare the sentiments from news with the twitter sentiment analysis .	There is a graphical comparision of the news and twitter posts . When I check the check box - 'What is the total sentiments of my company products ? ' I also get in results in numbers both the sentiment values from alchemy news API and twitter . This offers me a buisness value to know the better media for me as a company with respect to 'Products ' . The comparison (for both) is in timeframe of one day.	Ion	
37	7	7	2	2	Data processing	Regional product sentiment	As a software developer I should be able to prepare data on news feeds about products categorized by the regions of Europe, North America and Asia in order to use it later define what regional products are offered	The products per regions are returned with the corresponding sentiment value	Ion	
61	7	7	2	2	GUI element	Get list of products with clickable element	List of products can be viewed in the GUI	Show list, to be able to choose one product	Ion	

#	Rel.	Sprint	Est. Size	Real Size	Category	Short Name	Item Description	Acceptance Criteria	Responsible	Comment
43	8	8	2	2	GUI element	news time frame visualization	As a user I should be able to search the news sentiments about my company based on timeframe in order to be able to scale the time I am interested in.	There should be three checkboxes - 'What is latest ?' The time frame displays 1 week , 2 week and 4 weeks .	Dennis	
23	8	8	2	2	GUI element	Graph_ News_sentiment _about company	As a user I should be able to have information (visualized later in a graph) with dynamics of news sentiment on my company in order to have an insight on recent news coverage about my company.	The data is recieved from the API on a time frame of #42 is displayed on a graph -'X-axis' - time (days) , 'Y-axis' sentiment figures (from -1 to 1 - to be clarified)	Dennis	
63	8	8	1	1	GUI	Company name dialog	As a user I would like to explore the functionalities of the dialog functionality, and get a question on my screen asking me to enter the name of my company in a field. By entering the name of my company, the program should ensure it only directs to me to the inputted company, for example typing puma should give me information about Puma the sports firm only. The added value for me is that the GUI has higher usablilty I dont need to input the same information multiple times	After credentials, there is an auto pop-up welcome screen with the question 'Company name ' and a field to enter my company eg - PUMA , after entering, I got redirected to the dashboard screen. I dont need to enter the company again in other fields.	Dennis	
64	8	8	2	2	GUI	Company location_map	As a user I would like to view the inputted company locations around the world on my dashboard in order to get visualization on geografical position of the company I am researching	I am able to see on my interface the locations of my company on the map dashboard with points informing me the locations of my company .	Ion	
65	8	8	1	2	Data processing	Company location_googlem ap API	As a software developer I would like to obtain the different locations my company is based.	The obtained data used for displaing on the dashboard .	Ion	
67	8	8	2	2	Data processing	News relation	As a user I would lke to get insignt on company relations from the news	If I input Apple, I receive back actions asosiated with it from the news (for example, "launched new product", "hired 1000 people")	Ion	
68	9	9	2	2	Infrastructure	Integrate AdminLTE	As a software developer I would like to integrate AdminLTE into existing application in order to be able to use templates from it for the GUI	The templates from the AdminLTE are usable	Alex	
70	9	9	2	2	GUI	1st screeen_Log in screen_credential s	As a user I would like to have a log in screen so I have a possibility to enter my credentials for further use of the application	There is a log in screen with the box for entering credentials: 1) Alchemy API-Key 2) Twitter credentials (consumer key, consumer secret, access token, token secret) There is a log in button to confirm my input and proceed; There is logo of the app (will be provided separately)	Dennis	

#	Rel.	Sprint	Est. Size	Real Size	Category	Short Name	Item Description	Acceptance Criteria	Responsible	Comment
71	9	9	1	1	GUI	2nd screen_welcome screen	As a user I would like to have a welcome screen so I have a possibility to enter my credentials for further use of the application	There is a welcome screen with: - the box for entering company name; - the button "GO"; - same background as log in screen; - logo;	Dennis	
85	9	9	2	2	GUI	Dashboard_toolbar with logout button	As a user I need a log out button to be able to use another credentials	There is a logout button which will redirect me to the log in screen	Ion	
72	9	9	3	3	GUI	Dashboard_general layout	As a user I would like to have a 4 boxes (tabs) to click on and go to corresponding functionality block of the App in order to navigate easily	There are 4 boxes : Twiter, Product, Company, Competitors. Each box has a small icon, own color. (see mock up). Each lead to empty page. Connecion to actual fucntions will be implemented in further stories)	Ion	
74	9	9	2	2	GUI	Dashboard_company screen element_Graph	As a user I would like to have a graph showing the news sentiment for my company over time in order to get visualization on sentiment dynamics	When I click on Company box there is a graph with corresponding information, default is blank graph	Dennis	
77	9	9	3	3	GUI	Dashboard_company screen element_location map	As I user I would like to see the location of the company so that I can assess geographical coverage of a company	The map is shown with dots for company officies location. AdminLTE map	Alex	
76	9	9	3	3	GUI	Dashboard_competitor screen element_list	As a user I would like to have expandable list of competitors in order to get an overview which competitors my company has	When I click competitors box, there are "expandable list" items, each item reprsents industry of competitor. If expanded, I can see names of the competitors companies with check boxes	Ion	
80	10	10	1	1	GUI	Dashboard_competitor screen element_periods slider	As a user I would like to have slider and go button to choose period for the news in order to be able to choose relevant for me time interval	There is slider 1 week - 6 month, there is a go button	Dennis	
78	10	10	2	2	GUI	Dashboard_competitor screen element_Graph	As a user I would like to have a graph showing the news sentiment on the chosen competitor (s) over time in order to get visualization on sentiment dynamics	There is a graph , default period is blank. The graph can have multipul lines for several competitors (in case the user checked more than 1 box)	Dennis	
81	10	10	1	2	GUI	Dashboard_twiter screen element_list	As a user I would like to have expandable list of twitts in order to read a twit I am intersted in	There are expandable list items, each item reprsents user. If expanded, I can see text of the twit	Alex	
86	10	10	1	1	GUI	Dashboard_twiter screen element_tabs	As a user I would like to have tabs which classify the twwitts into positive, negative and neutral twitts in order to oientate myself better and be able to read only the tab I am interested in	There are 3 tabs, positive, negative, neutral, when clicked I see the expandable elements with twitts	Alex	
85	10	10	1	2	GUI	Dashboard_twiter screen element_slider	As a user I would like to have visualization in form of slider which shows avarage sentiment of twitts in order to quickly get a feeling of general situation on the social media for my company	There is a slider with red part for negative value and green for positive. The slider is at position corresponding to the avarage value of latest 15 (100) twitts	Alex	

#	Rel.	Sprint	Est. Size	Real Size	Category	Short Name	Item Description	Acceptance Criteria	Responsible	Comment
88	10	10	2	2	GUI	Dashboard_product screen element_lists	As a user I would like to have expandable list of produsts in order to chose the item I am interested in	There are expandable list items, each item reprsents product category. If expanded, I can see products with check boxes	Ion	
91	10	10	1	1	GUI	Dashboard_product screen element_"All boxes"	As a user I would like to have an option to check "All boxes", meaning to choose all products of the company or all products of the category in order to be able to see agragated information on the graph	There is a possibility to check "All boxes" on 2 levels: 1) overall, all products of the company 2) all products of a certain category (for example, mobile devices) If I checked all products, the graph in the story #45 shows average for these products	Ion	
45	10	10	3	3	GUI	Dashboard_product screen element_Graph	As a user I would like to have a graph showing the news sentiment on the chosen product(s) over time in order to get visualization on sentiment dynamics	There is a graph with corresponding information, default is blank graph. If I checked all products, the graph in the story #91 shows average for these products	Ion	
95	10	10	1	1	GUI	Dashboard_company screen_"recent developmetns"	As a user I would like to knoe the recent developments about my company in order to get an insight on major recent events "in life of the company"	There is a list of events, for example "launched new product", "hired 1000 employees"; there are URLs where I can look up more details	Ion	
75	11	11	1	1	GUI	Dashboard_company screen element_periods slider	As a user I would like to have a timeframe slider and go button to choose period for the news graph in order to be able to choose relevant for me time interval	There is slider 1 week - 6 month, go button	Dennis	
97	11	11	1	1	GUI	Fix the map	As a user I would like to have the map shown in the dashboard in the viewable size	The map is shown on the dashboard in a size that is viewable, e.g. big enough that user can see the dots of offices location on the world map	Alex	
90	11	11	1	1	GUI	Dashboard_product screen element_periods slider	As a user I would like to have sider and go button to choose period for the news in order to be able to choose relevant for me time interval	There is slider 1 week - 6 month, there is a go button	Ion	
87	11	11	1	1	GUI	Dashboard_product screen element_tabs	As a user I would like to have tabs which "Own produscts", "Competitor products" in order to be able to choose whcih product do I want to get an insight on	There are 2 tabs "Own produscts", "Competitor products"	Dennis	
79	11	11	2	2	GUI	Dashboard_competitor screen element_location map	As I user I would like to obtain the location of the competitor so that I can view the location of the competitor on the GUI dashboard and assess geografical relevance of this competitor.	After checking the checkboxes with competitors I would like to look up on the map, there is a go button -> the map is shown with dots for company officies location. Default state is showing all competitors	Ion	
66	11	11	3	3	Data processing	Twitter Bluemix API research	As a user I would like to get list of twits based on company name to receive an insight on the public opinion about my company	Twitts about the inputted company are returned on the console	Alex	
98	11	11	2	2	GUI	Welcome screen	As a user I would like to have a "advanced option" option on welcome screen to choose the interval	there is a slider, default 2 weeks	Dennis	

#	Rel.	Sprint	Est. Size	Real Size	Category	Short Name	Item Description	Acceptance Criteria	Responsible	Comment
109	11	1	1	1	Data processing	The creditworthiness index calculation+weights	As a user I would like have a calculation mechanism in oder to calculate a "Creditworthiness index"	the formula: (((average twitter sentiment * (weight/100) + average news sentiment * (weight/100)) /count of parameters)+2. Weight is a parameter to be added by user into the input field [in form of the slider]. In case the user does not input anything, the default calculation is mathematical average	Ion	
108	11	2	2	2	GUI	Summary screen_Slider	As a user I would like to see a "one at a glance" summary screen to have a possibility to have a general conclusion about the company's credirworthiness	There is a screen showing: 1) 3 fields saying "twitter sentiment", "own news sentiment", "competotor sentiment" with check boxes; 2) near each of the fileds there is a slider to input a weight (e.g. 50%, 20%, etc) 3) there is an element (slider from -2 to 2) which shows an overall "index of credit creditworthiness"	Ion	
110	13	12	1	1	Data processing	Summary screen_Positive sentiment ratio_news	As a user I would like to be shown a ratio of positive sentiments in overall amount of sentiments in order to get a feeling about % of positive feedbacks about my company	a ration number is given back to consol. Exclude neutral sentiments from calculation (from -0.5 to 0.5). The calculation is done according to th eformula: ((count of positive sentiment/ (count of positive sentiment + count of negative sentiment)))*100	Alex	
111	13	12	2	2	GUI	Summary screen_Positive sentiment ratio_twitter&news	As a user I would like to be shown a ratio of positive sentiments in overall amount of sentiments about my company, visualized in a pie chart, in order to get a feeling about % of positive feedbacks about my company	In the summary screen I can see 2 pie charts, for twitter & news ratio	Alex	
94	13	12	2	2	Data processing & GUI	Twitter categorization based on amount of retweets	As a user I would like to get structures tweets in order to navigate through them more easily	In the old GUI twitts are structures by users. What is needed: use value ranges for amount of retwitts. 3 ranges: mostly retwitted, moderatly retwitted, least retwitted	Alex	
117	13	12	1	1	GUI	Welcome screen_add Twitter Blumix credential input field	As a user I need a field to input the "new" Bleumix Twitter key in order to be ale to input my credentials to use the appliation	There is a field to input the "new" Bleumix Twitter key on the credentials screen. Old twitter credentials fields are deleted	Dennis	
114	13	12	3	3	Data processing	Top competitors_product based	As a user I would like to filter the competitors based on product based on my company in order to refine results	The competitors are filtered based on the main product of my company , filtering based on dbpedia .	Ion	
121	13	12	1	1	Data processing	Top competitors_number of employees	As a user I would like to restrict number of competitors so I only get the most relevant ones in order to later get a graph with own sentiment vs competitor sentiment	The number of competitors is 3-5 per company	Ion	
118	13	13	2	2	Infrastructure	Cashing	As a SW developer I need th cashing mechanism in order to be able to demo the applicationquicker and save the quota	The info on the companies which I research is cashed	Dennis	

#	Rel.	Sprint	Est. Size	Real Size	Category	Short Name	Item Description	Acceptance Criteria	Responsible	Comment
98	13	13	2	2	GUI	Dashboard_summary screen_news sentiment graph	As a part of "on one glance" dashboard I as a user would like to see the graph which shows average news sentiment of my company and competitors comapies on the same graph to analyse if the company is creditworthy based on this inforamation	There is a graph with corresponding information. Standard is what the user chose on welcome screen	Ion	
109	13	13	2	2	Data processing	Summary screen_Positive sentiment ratio_twitter	As a user I would like to be shown a ratio of positive sentiments in overall amount of sentiments in order to get a feeling about % of positive feedbacks about my company	a ration number is given back to consol. Exclude neutral sentiments from calculation (from -0.5 to 0.5). The calculation is done according to th eformula: ((count of positive sentiment/ (count of positive sentiment + count of negative sentiment)))*100	Alex	
125	13	13	1	1	GUI	Sentiment numeric values_ twitter and news	As a user I need a field near each "element" of the index which will show me the value of sentiment for this element	There are text fileds with numeric values near the elements	Ion	
127	13	13	2	2	GUI clean-up	Summary dashboard_add	As a user I would like to have additional new summary dashboard in order to be able to view management summary	There is one additional box (above existing) saying "Management summary & credit score". This is the home screen. It contains 1) all creditworthiness index grafic elements 2) the graf "my sentiment vs competitors" 3) the pie charts.	Dennis	
113	13	13	1	1	GUI_clean up	logo_replacement	As a user I would like to have the new logo on my welcome screen to raise recognizability of the App	the old 'Cognitive services ' logo is replaced with the 'Blue' Cognimaster logo in Github	Dennis	Please find the logo in Git as welcome screen logo .
120	13	13	2	2	GUI_clean up	Relisting_features_ matrix	As a user I would like to view the features under each container in a column fashion in order to have more compact overview	The page can be split into or more blocks listing each feature in a block in a matrix way .For large screen: one near the other ; for small: one under the other	Alex	
102	13	13	1	1	GUI clean-up	Logo -> Name of the APP	As a user I would like o see a small logo in the corner of each screen to improve aesthetics	There is a small logo in the corner of each screen + on the welcome screen	Ion	CogniMaster (the logo is available in Git as sidebar logo)
118	13	13	1	1	GUI_clean up	Dashboard_toolbar_search_activation	As a user I would like to be able to change the company I am researching on the toolbar in order to be able to research diffrernt companies wihout the necessity to log out	If I input a company name in the toolbar, and press serach, the page is reloaded and the information on the newly inputted company can be represented per user choice	Ion	
103	13	13	1	1	GUI clean-up	Dashboard_AdminLTE elements_closure sign	As a uer I would like that the deletion possibility of the elements on the dashboard is removed, in order to avoid accidental deletion of the element by human error	There is no "x" sign near th eLTE elements so I cannot delete the elements from the dashboard	Ion	
128	13	13	1	1	GUI	Advanced options	As a user I would like the advanced option be non-ambigous and mandatory in order that other functionality can work with that default inteval	On clicking 'advanced options' I would like a statement 'Please select time frame of your service : ' below it is the statement ' Default time frame : 2 weeks . The slide is visible all the time	Dennis	

#	Rel.	Sprint	Est. Size	Real Size	Category	Short Name	Item Description	Acceptance Criteria	Responsible	Comment
129	13	13	1	2	GU cleanup	Improvement of Container boxes	As a user I would like the numbers to be removed from th container boxes	The numbers are irrelevant to my website .	Alex	

Sprint #	Start Date	End Date	Scrum Master	Release Manager
1	2016-04-13	2016-04-15	na	na
2	2016-04-15	2016-04-20	na	na
3	2016-04-20	2016-04-27	Rashmi	Dennis
4	2016-04-28	2016-05-04	Olga	Alex
5	2016-05-11	2012-05-11	Dennis	Ion
6	2016-05-12	2016-05-18	Ion	Ion
7	2016-05-18	2016-05-25	alex	Dennis
8	2016-05-26	2016-01-06	Rashmi	Alex
9	2016-06-02	2016-06-08	Dennis	Ion
10	2016-06-09	2016-06-15	Rashmi	Alex
11	2016-06-16	2016-06-22	Ion	Dennis
12	2016-06-23	2016-06-29	Olga	Ion
13	2016-06-30	2016-07-06	Ion	Alex
14	2016-07-07	2016-07-13	Alex	Dennis
15				

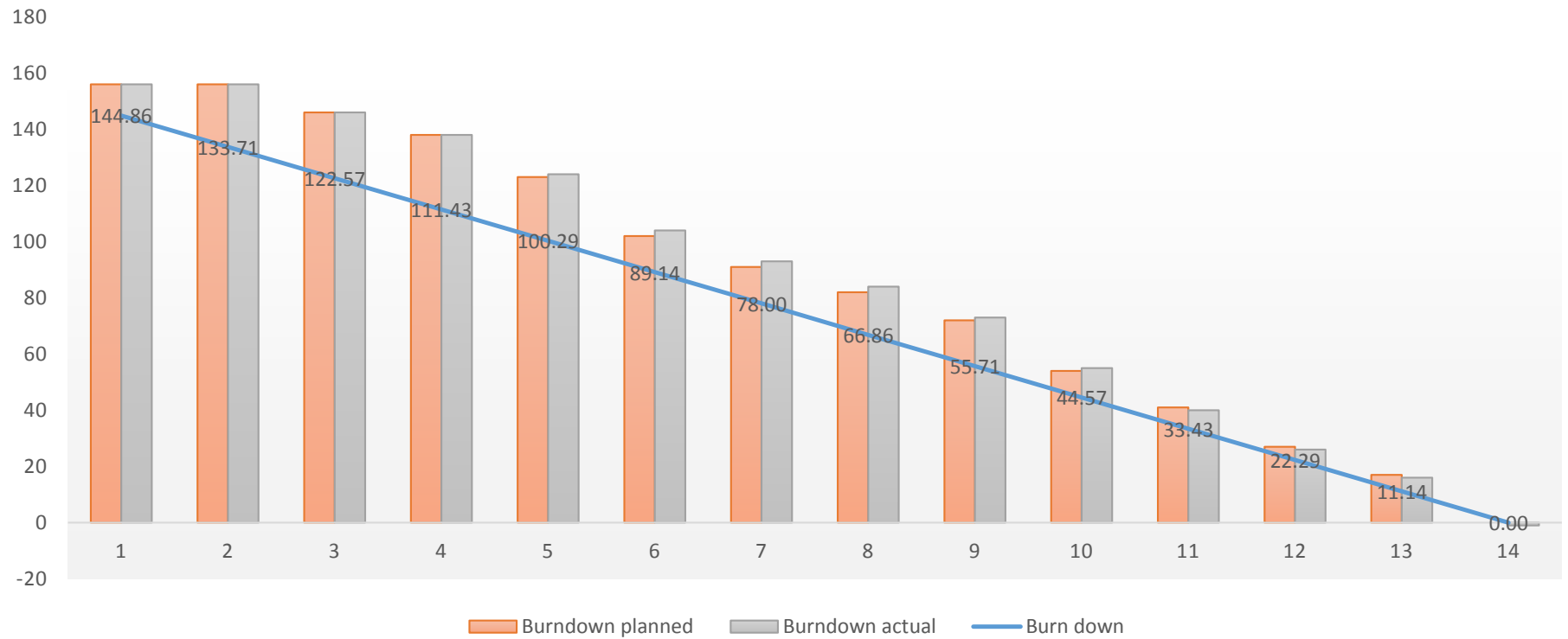| #	DoD backlog entry	
1	Developed features are accepted by PO's only when functions based on acceptance criterion delivering the intended buisness value .	
2	The developed feature is tested both by PO's and SD's respectively on web-interface and command line depending on the test deployment to ensure it satifies the acceptance criterion and then released .	
3	The code for the feature has been submitted to the repository and tagged properly .	
4	The feature builds and deploys automatically	
5	The feature is demoed before release .	
#	DoD for Sprint Release	
1	The release contains atleast one feature which is done .	
2	Code regression has been accounted for- the new features in the release do not break any existing functionality .	
3	The release candidate builds and deploys automatically, independent from context .	
4	The decision to release is done explicitly .	
	DoD for Product Release	
1	Final acceptance (end-to-end) testing was conducted and documented, results are accepted by POs	
2	All realized product features has been demoed.	
3	Decision for final release is made explicitly	
4	All features are documented properly, e.i. transfered to the archive.	
5	The product brings value, to the extend that was possible for the given timeframe, as intended by the industry partner	
6	Project planning documentation is archived in git	
7	Final version of user documentation is in place, archived in git	
8	Final version of build and deployment documentation is in place, archived in git	

Release	Mid-term						
No Sprints	6						
Due Date	25.05.2016						
Sprint #	Theme	User Stories #	Est. Effort	Burn-Down	Real Effort		
0			0	156	0		
1			0	156	0		
2	sprint-02-release	1,2,3,4,5,6,7	10	146	10		
3	sprint-03-release	9,14	8	138	8		
4	sprint-04-release	28,10,27,29,17	15	124	14		
5	sprint-05-release	17,26,11,21,33	21	104	20		
6	sprint-06-release	38,46,30,39,40,41	11	93	11		
Total			65		63		
Release	Final						
No Sprints	7						
Due Date	13.07.2016						
Sprint #	Theme	User Stories #	Est. Effort	Burn-Down	Real Effort		
7	sprint-07-release	60,56,37,61,42	9	84	9		
8	sprint-08-release	43,23,63,64,65,67	10	73	11		
9	sprint-09-release	68, 70, 71, 85, 72, 74, 77, 76	18	55	18		
10	sprint-10-release	80, 78, 81, 86, 85, 88, 91, 45, 95	13	40	15		
11	sprint-11-release	66,75,79,87,90,97,98,108,109	14	26	14		
12	sprint-12-release (release posponed)	110, 111, 94, 117, 114, 121	10	16	10		
13	sprint-13-release	118, 98, 109,125,127,113,120,102,118,103,128,129	17	-1	17		
Total			91		94		

Development speed

Burndown chart

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

Burn down values: 144.86, 133.71, 122.57, 111.43, 100.29, 89.14, 78.00, 66.86, 55.71, 44.57, 33.43, 22.29, 11.14, 0.00

Legend: Burndown planned | Burndown actual | Burn down

#	Sprint #	Impediment	Status	Resolution
1	2	not everyone presen on communication chat	closed	Everyone should set up slack until 21.04
2	2	Key are not available from the industry partner	closed	Keys provided
3	3	software developers miss a member	closed	Discuss with the team member the reasons of non-participation and agree on a soluton if the situation is repeated in future
4	3	technical issues with API's , API's have limitation with queries .	closed	Discussion with SD's
5	4	User stories to be broken into elementary parts for easy execution by the SD.	closed	discussion with team
6	5	Saber has not delivered any results yet	closed	On proffesorship side now
7	7	none		
8	8	none		
9	9	none		
10	10	none		
11	11	none		
12	12	none		
13	13	none		

#	NAME	LICENSE	LINK
1	apache-jena	Apache License v2.0	https://github.com/apache/jena
2	java-sdk	Apache License v2.0	https://github.com/watson-developer-cloud/java-sdk
3	spring-framework	Apache License v2.0	https://github.com/spring-projects/spring-framework
4	twitter4j	Apache License v2.0	https://github.com/yusuke/twitter4j
5	jquery	MIT license	https://jquery.org/license/
8	AdminLTE	MIT license	https://almsaeedstudio.com/themes/AdminLTE/documentation/index.html
9	logo	Freepik license that inhibits commercial use .	http://www.freepik.com/terms_of_use

Date	27.04.2016
Participants	Baglai, Olga; Routray, Rashmi; Schmidt, Christoph ; Mosnoi, Ion; Scheffer, Dennis; Hajjej, Saber; Batyuk, Alexey; Bossle, Johannes; Gassner, Gerald; Kaufmann, Andreas
Agenda	Scrum Release , Scrum Retrospective , product backlog
	Scrum Release : A simple UI with two sample questions and a search tab .
Miscellaneous	Skype with industry partners , missing member Saber Hajjej .
Result of the project	define questions relevant to a credit portfolio of a company; construct the pipleline of services that provide the answer to the question; ensure that only relevant answers to a pre-defines questions are given (2 questions are enough); create web page to input company name, answers to pre-defined questions will be given as the result.
KPI	relevance of extracted information, trust level with the evidence one gets
Examples of questions	master data (core business of the customer, product lines) competition customer satisfaction
Approach - how to start	bring the answer results to more relevance by repeatedly asking, recombining them; play around with few companies, try different question see what it returns, refine question.
Technologies	Java; IBM cognitive services, Blumix platform; other cognitive services (for example google, amazon - use API ffrom different vendors to enreach the data and provide value)
Next steps	1) request & provide key to IBM services 2) get acquainted with capabilities of the IBM services& Blumix platform, discuss ideas inside the team 3) pre-discuss ideas with industry partners before spending effort

#	Category	Description	Discussion/result
1	Date	20.04.2016	
2	Participants	Baglai, Olga; Routray, Rashmi; Mosnoi, Ion; Scheffer, Dennis; Hajjej, Saber; Batyuk, Alexey, Kaufmann, Andreas	
3	Agenda	Sprint review	None, as there were no previous sprint
4		Scrum release	None, as there were no previous sprint
5		Sprint reterospective of last sprint	None, as there were no previous sprint
6		Sprint planning	Roles for nest sprint defined, new user stories discussed, estimated via pocker, added to Sprint 02 backlog, resposible developers assigned
7	Micellanous	Team contract	Punctuality. Everyone should come to the meeting on times. In case a team member is late, they should inform the team beforehand.
		Release manager and Scrum master roles distribution	dynamic, decided every week.
		Git hub rules	All push into the master branch

#	Category	Description	Discussion/result
1	Date	27.04.2016	
2	Participants	Baglai, Olga; Routray, Rashmi; Mosnoi, Ion; Scheffer, Dennis; Batyuk, Alexey, Kaufmann, Andreas	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Backlog
4		Scrum release	Decision to release was discussed and agreed upon explicitly. Sprint 02 features transferred to Feature archive
5		Sprint reterospective of last sprint	Conducted, impediments discussed and updated
6		Sprint planning	Roles for nest sprint defined, new user stories discussed, estimated via pocker, added to Sprint 03 backlog, resposible developers assigned
7	Micellanous	Industry partner meeting for upcoming sprint .	Date and time agreed. 29.04, 14:00

#	Category	Description	Discussion/result
1	Date	04.05.2016	
2	Participants	Baglai, Olga; Routray, Rashmi; Scheffer, Dennis; Batyuk, Alexey; Hajjej, Saber;	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Backlog. Part of the features were acepted and transferred to the feature archive, others were pushed back to the prosuct backlog and prioritized
4		Scrum release	Decision to release was discussed and agreed upon explicitly.
5		Sprint reterospective of last sprint	Conducted, impediments discussed. One impediment was closed. 1) Topics such as communication norms per team contract and responsibilities of the srum master were discussed. 2) Team agreed that no comunication should be done to the outside of the team without prior discussion in the team. 3) It was decided that the scrum master should track all non-technical tasks of the team and also assign the non-technical tasks. 4) No new impediments were added, as the mentioned topics were not considered impediments that might influence the project deliverables or deadlines/ need any kind of resolution in addition to what was agreed on the meting.
6		Sprint planning	Roles for nest sprint were defined, new user stories discussed, estimated via pocker, added to Sprint 04 backlog, resposible developers assigned.
7	Micellanous	Roadmap	Team agreed that there should be a roadmap develped for project. This task will be done together with the mid term Release planning according to course deadline.
		Development socumentation	Product documentation is due on CW07. As soon as corresponding lecture is given to gain understanding of what is required in regard to the documentation, the task will be assigned to a team member(s).
		Licence Bill of Material	It was agreed that the licence BoM will be maintained on the repository. All developers should input the libraries they use to the document.

#	Category	Description	Discussion/result
1	Date	11.05.2016	
2	Participants	Routray, Rashmi; Scheffer, Dennis; Batyuk, Alexey; Hajjej, Saber;	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Backlog. Part of the features were acepted and transferred to the feature archive, others were pushed back to the prosuct backlog and prioritized
4		Scrum release	Decision to release was discussed and agreed upon explicitly
5		Sprint reterospective of last sprint	A new impediment was added , shorter user stories to avoid pending sprint backlogs for further sprints .
6		Sprint planning	Roles for next sprint were defined, new user stories discussed, estimated via pocker, added to Sprint 05 backlog, resposible developers assigned.
7	Micellanous		The method of software documentation is developer's discretionary , developer's need to do documentation simultaneously every sprint .deliverable is due for CW07 . Industry partner was informed about mid-term release dates . A buisness account of twitter is needed , to increase the number of twitter feeds .

#	Category	Description	Discussion/result
1	Date	18.05.2016	
2	Participants	Routray, Rashmi; Scheffer, Dennis; Batyuk, Alexey; Ion Mosnoi	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Backlog. All the features satisfied the criterions and were accepted .
4		Scrum release	Decision to release was discussed and agreed upon explicitly
5		Sprint reterospective of last sprint	A new impediment was added , about pending tasks from SD Saber Hajjej .
6		Sprint planning	Roles for next sprint were defined, new user stories discussed, estimated via pocker, added to Sprint 06 backlog resposible developers assigned.
7	Micellanous		The team decided as a part of mid-term release internal roadmap for no new features , documentation , features defining the User interface .

#	Category	Description	Discussion/result
1	Date	26.05.2016	
2	Participants	Routray, Rashmi; Scheffer, Dennis; Batyuk, Alexey; Ion Mosnoi; Baglai, Olga; Kaufmann, Andreas; Bossle, Johannes	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Backlog, decisions if the feature is done made according to DoD. All the features that satisfied the DoD were accepted .
4		Scrum release	Decision to release was discussed and agreed upon explicitly
5		Sprint reterospective of last sprint	One impediment closed, a new impediment (about feaures planning) was discussed and resolved at the meeting.
6		Sprint planning	Roles for next sprint were defined, new user stories discussed, estimated via pocker, added to Sprint 07 backlog, resposible developers assigned.
7	Micellanous	Comments from industry pertner	In general, research work, data processing seems to be enough for the project goals. The suggestion is to focus on user interface and sharpening the existing features.

#	Category	Description	Discussion/result
1	Date	01.06.2016	
2	Participants	Scheffer, Dennis; Batyuk, Alexey; Ion Mosnoi; Baglai, Olga;	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Backlog, decisions if the feature is done made according to DoD. All the features that satisfied the DoD were accepted .
4		Scrum release	Decision to release was discussed and agreed upon explicitly
5		Sprint reterospective of last sprint	One impedimant was discussed: not enough desigh expertise to create a fancy GUI. Was resolved by providing information on existing template frameworks. Role of PO would be to choose template and decide to which components to connect existing functionality of the app. It would also be good to provide some kind of workflow to see how the GUI should function
6		Sprint planning	Roles for next sprint were defined, new user stories discussed, estimated via pocker, added to Sprint 08 backlog, resposible developers assigned.
7	Micellanous	Licence question	The considered library contains a BSD licence. To be checked if it is ok to use it (write letter to the chair/Dennis)

#	Category	Description	Discussion/result
1	Date	08.06.2016	
2	Participants	Scheffer, Dennis; Batyuk, Alexey; Ion Mosnoi; Baglai, Olga; Routray, Rashmi	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Backlog, decisions if the feature is done made according to DoD. All the features that satisfied the DoD were accepted .
4		Scrum release	Decision to release was discussed and agreed upon explicitly
5		Sprint reterospective of last sprint	No new impedimants
6		Sprint planning	Roles for next sprint were defined, new user stories discussed, estimated via pocker, added to Sprint 09 backlog, resposible developers assigned.
7	Micellanous		

#	Category	Description	Discussion/result
1	Date	15.06.2016	
2	Participants	Scheffer, Dennis; Batyuk, Alexey; Ion Mosnoi; Baglai, Olga; Routray, Rashmi; Kaufmann, Andreas	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Sprint Backlog, decisions if the feature is done made according to DoD. All the features that satisfied the DoD were accepted .
4		Scrum release	Decision to release was discussed and agreed upon explicitly
5		Sprint reterospective of last sprint	No new impedimants
6		Sprint planning	Roles for next sprint were defined, new user stories discussed, estimated via pocker, added to Sprint 10 backlog, resposible developers assigned.
7	Micellanous		As an idea for next sprints it was discussed it would be beneficial to think of "on one glance" dashboard to define if the company is creditworthy

#	Category	Description	Discussion/result
1	Date	22.06.2016	
2	Participants	Scheffer, Dennis; Ion Mosnoi; Baglai, Olga;	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Sprint Backlog, decisions if the feature is done made according to DoD. All the features that satisfied the DoD were accepted .
4		Scrum release	Decision to release was discussed and agreed upon explicitly
5		Sprint reterospective of last sprint	No new impedimants
6		Sprint planning	Roles for next sprint were defined, new user stories discussed, estimated via pocker, added to Sprint 11 backlog, resposible developers assigned.
7	Micellanous		The enhancement proposal was discussed to cut the "Inc" or "corp" from company name while searching the twitts. (to be inputten to isuue tracker, Olga) Last week sprint will focus on GUI clean up.

#	Category	Description	Discussion/result
1	Date	29.06.2016	
2	Participants	Scheffer, Dennis; Ion Mosnoi; Baglai, Olga; Routray, Rashmi	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Sprint Backlog, decisions if the feature is done made according to DoD. All the features that satisfied the DoD were accepted .
4		Scrum release	Decision to release was discussed and agreed upon explicitly
5		Sprint reterospective of last sprint	No new impedimants
6		Sprint planning	Roles for next sprint were defined, new user stories discussed, estimated via pocker, added to Sprint 12 backlog, resposible developers assigned.
7	Micellanous		Demo day discussed. Necessary to start cashing before demo and also not to use credentials 1 day before

#	Category	Description	Discussion/result
1	Date	06.07.2016	
2	Participants	Scheffer, Dennis; Ion Mosnoi; Baglai, Olga; Kaufmann, Andreas; Batyuk, Alexey;	
3	Agenda	Sprint review	Demo done, features discussed against user stories in the Sprint Backlog, decisions if the feature is done made according to DoD. All the features that satisfied the DoD were accepted .
4		Scrum release	Decision to release was discussed and team agreed not to release as some bugs broke existing functions
5		Sprint reterospective of last sprint	No new impedimants
6		Sprint planning	New user stories discussed, estimated via pocker, added to Sprint 13 backlog, resposible developers assigned.
7	Micellanous		- input issue about label on pie chart - input to adjust the index to new new bluemix twitter - check the compnay setiment graph (showed same valued for last 2 weeks) - everyone should search for bugs and report them immediately to the issue tracker - be ready with all developments and release till Sunday evening - two days for cashing

When/Who	Scrum master	Release manager	Next sprint's Scrum master		
Meeting preparation/during sprint week	tracks non-technical tasks	Prepares the product for review session			
	resolves impediments during the sprint week	Tag release candidate with sprint-xx-release-candidate			
	documents resolutions of the impediments	Ensure that a working demo system will be available			
During meeting/ sprint review	-	Compile, build, and run tests for release candidate			
		Deploy release candidate to test environment			
		Conducts demo			
During meeting/ sprint release	-	Releases the product after agreement			
During meeting/retrospective	Reviews sprint impediments, reports progress		Make row call as to new impediments		
			Take note of people's impediments		
			Allow everyone to make a suggestion		
			Summarize impediments in planning documents		
During meeting/ sprint planning					
Any time/ as needed	Assignes non technical tasks				
	Shields team from unwanted interferences				
	Holds overall responsibility for process improvement process				

Timestamp	Untitled Question