

# Project Data Product Backlog

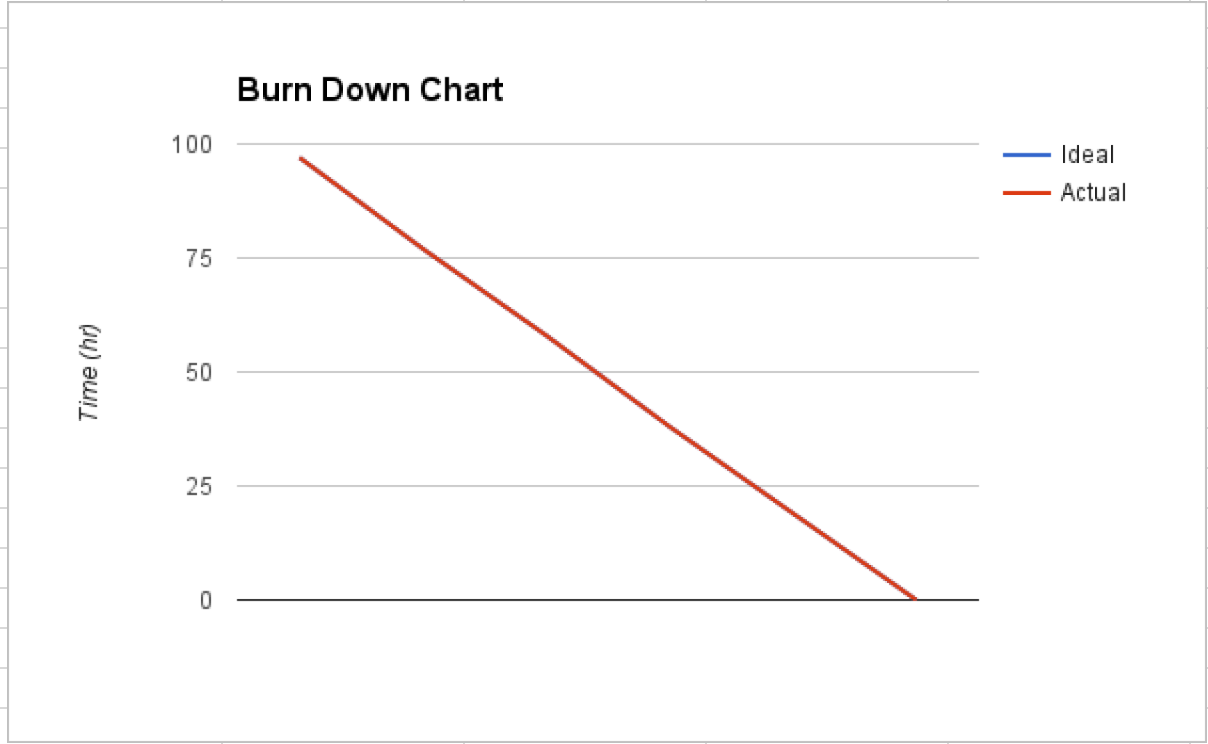
ID	Feature	Priority	Sprint 1	Sprint 2	Sprint 3
1	As a user I want to filter items on a web page so that I can sort out the products I want.	M	X		
2	As a user I want to register to the website so that the website can store my information in a database.	M		X	
3	As a developer I want a special admin account so that I can see the status of the server.	M			
4	As a developer I want a database so that I can store all the information of my webshop in it.	M		X	
5	As a developer I want a ERD so that I know how big the databse will be.	M		X	
6	As a developer I want Use Case Descriptions so that I can use it to see all the interactions.	M		X	
7	As a developer I want a deployment diagram so I can see all the components.	M	X		
8	As a developer I want a class diagram so that I know which classes are for what and how I must implement them.	M		X	
9	As a developer I want sequence diagrams so I can see all the actions on the client and sever side.	M		X	
10	As a developer I want a web API so that I can use it to get all the data from a database.	M	X		
11	As a user I want to acces a details page so that I can see the description about the coffee	M		X	
12	As a developer I want to map data to objects so that I can use the objects on the website.	M		X	
13	As a user I want to login to the website so I can buy things	M		X	
14	As a user I want to be able to select multiple items in multiple quanitites, so that I can purchase them	M		X	
15	As a user I want to be able to change my location so when I move my products will be delivered to the correct location	M			
16	As a user I want to be able to favorite my bought products so I can quickly rebuy them again	M			
17	As a user I want to be able to keep a wish list so that I can look back at all the different coffees I still want to try	M		X	
18	As an admin I want to be able to visualize the amount of orders that have been placed so that I can see how healthy my business is	M			
19	As an admin I want to be able to visualize the most popular products so that I can create promotions for them	M			
20	As an admin I want to be able to visualize average intervals of purchases so that I can see when I should run promotions	M			
22	As a user I want to be able to reset my password so when I forget it I won't get locked out of my account	M			
23	As a user I want to see my order history because I want to see how much I spent on coffee	M			
24	As a user, I wish for people to be able to set their wish list public, so that I can see what other coffee lovers are drinking	M			
25	As a user, I wish for the connection to be over HTTPS because I don't want my personal information to be stolen	S			
26	As a user, I wish to have a single page application, because I love flashy graphics and would be more inclined to buy from a flashy website	C			
27	As a developer, I want to implement design patterns for the server, to make sure code maintainence is a breeze	S			
28	As the client, I want to be able to deliver the product as containerized deployment, so that I can install it on multiple servers	C			
29	As a user, I want often used data to be cached, because I cannot stand long wait times on websites	S			
30	As a user, I want the website to have a repsponsive design, because I want to order stuff from my phone whilst at work	S			
31	As a user, I want the website to be concurrent in the background, because I cannot stand long wait times on websites	S			
32	As an admin, I want to have a special admin page where I can see my visualisations because I want to see them all	M			

## SPRINT 1 BACKLOG

ID	Priority	Time Estimation	Corresponding Story	Task name	Description	Acceptance criteria
1	M	13	As a user I want to filter items on a web page so that I can sort out the products I want.	HTML Product Page	A basic HTML page to deliver to the user.	-When requesting the root URL. A page is shown for all the products. - The page has a grid layout of all the products sold on the website. - When the search bar is filled with text, or the drop down for country is set, the items are filtered according to these criteria.
2	M	8	As a user I want to filter items on a web page so that I can sort out the products I want.	Javascript API Call	Function that calls the API with given parameters and retrieves the data.	- The javascript has a function that accepts a string, arguments and a callback for retrieving data from the API
3	M	5	As a user I want to filter items on a web page so that I can sort out the products I want.	Javascript API Formatter	Function that takes the API data and formats it into objects.	- The javascript has a function that can read the products json and turn it into proper objects
4	M	8	As a user I want to filter items on a web page so that I can sort out the products I want.	Javascript HTML product converter	Function that takes product objects and converts them to HTML.	- The javascript has a function to retrieve the template file for the product boxes. - A handlebar script exists to take the template and insert the product information.
5	M	13	As a user I want to filter items on a web page so that I can sort out the products I want.	Javascript HTML Insertter	Function that inserts HTML into the document.	- A function exists in the javascript that takes html, and an element selector and adds the html to that element as a child node.
6	M	1	As a user I want to filter items on a web page so that I can sort out the products I want.	Search bar	A search bar on the HTML page.	- The page has a search bar to enter text - The page has a search button for submitting the text.
7	M	3	As a user I want to filter items on a web page so that I can sort out the products I want.	Javascript search bar data reader	A function that reads the search bar data.	- The javascript has a function that reads the search bar data, and passes it through to a callback
8	M	13	As a user I want to filter items on a web page so that I can sort out the products I want.	Javascript search bar submit button	A function that refreshes the listed items based on the search bar data.	- There is an object prototype to model the filtering criteria. - There exists a function that tears down the products htmls and rebuilds them according to the filtering criteria
9	M	-	As a user I want to filter items on a web page so that I can sort out the products I want.	Bootstrap (VERVALT, MOGEN WE NIET GEBRUIKEN)	Bootstrap styling CSS is paired with the HTML.	- Bootstrap is added to the HTML.
10	M	1	As a user I want to filter items on a web page so that I can sort out the products I want.	HTML Marshalling / HTTP Request for product page	Create a flask function for the Products page that supplies the HTML page of the products.	- Flask has a function for the basic index route.
11	M	5	As a developer I want a web API so that I can use it to get all the data from a database.	JSON Product model	Mock JSON data to model the products.	- A json file exists with product data with at least 40 products. - The products have a name, description, country of origin, price and a list of aromas
12	M	2	As a developer I want a web API so that I can use it to get all the data from a database.	Web API Marshalling	Flask function for the Web API that retrieves the stored data and returns it to the caller in JSON.	- A function for python exists that reads the json text file and parses it to json
13	M	1	As a developer I want a web API so that I can use it to get all the data from a database.	URL to Argument Converter	Python function that takes a url and extracts the arguments.	- A function exists that extracts url arguments and puts them in an associative array
14	M	5	As a developer I want a web API so that I can use it to get all the data from a database.	Python JSON getter	Python function that retrieves the JSON files based on a filter.	- A function exists that filters json arrays based on a given predicate
15	M	3	As a developer I want a web API so that I can use it to get all the data from a database.	Python Product Class	Create python class modelling a product.	- A python class exist that models all the properties of the products. - The class has basic boolean operators for that accept filtering criteria such as name and return a successful match (e.g. product.hasName("Venton") - The class implements a 'to dictionary' method
16	M	8	As a developer I want a web API so that I can use it to get all the data from a database.	Python JSON to Model converter	Python function that takes a JSON object and casts it to a python model.	- A function exists that turns the associate array from JSON data into the products model
17	M	8	As a developer I want a web API so that I can use it to get all the data from a database.	Python Model to JSON converter	A function that turns python product models into JSON.	- A function exists that turns the product models into JSON for delivery
		97				

## SPRINT 1 BURN DOWN CHART

Day	Ideal	Actual	Date		
start	97	97			
1	77	77	24-10-2016		
2	58	58	25-10-2016		
3	38	38	26-10-2016		
4	19	19	27-10-2016		
5	0	0	28-10-2016		



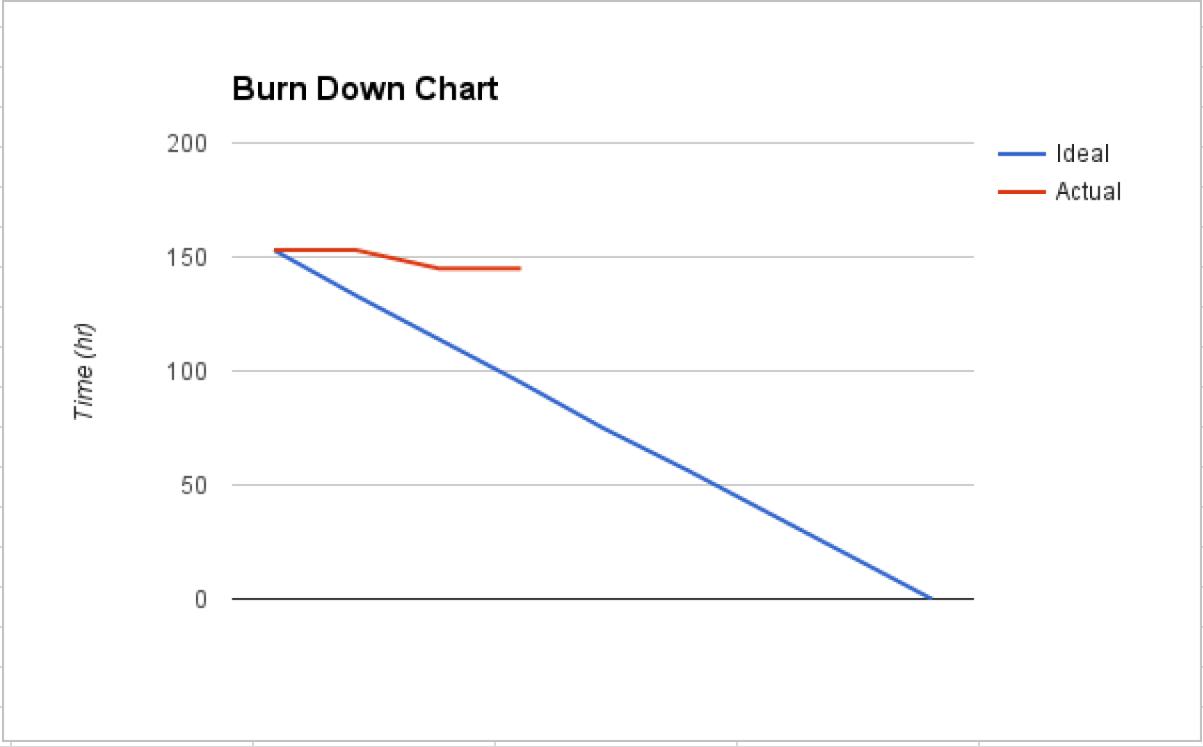
# SPRINT 2 BACKLOG

ID	Priority	Time Estimation	Corresponding Story	Task name	Full Task	Acceptance criteria
1	M	5	As a user I want to register to the website so that the website can store my information in a database.	Account creation page	Create a register / login page with a panel for registration	<ul style="list-style-type: none"> <li>- The register / login page is reachable from the other locations.</li> <li>- The register / login page has a panel for registering.</li> <li>- The register form has: Name, Password, Email, Address fields</li> <li>- The register form has a submit button</li> </ul>
2	M	8	As a user I want to register to the website so that the website can store my information in a database.	Account creation post	A method exists for sending the data from the registration form to the server and persist it to the database	<ul style="list-style-type: none"> <li>- Clicking on the submit button posts to a url on the API.</li> <li>- The server handles the submitted post.</li> <li>- The server persists the data to the database</li> <li>- The server validates that the data is correct</li> <li>- The server returns a success or fail message</li> </ul>
3	M	5	As a user I want to register to the website so that the website can store my information in a database.	Account creation validation	The form validates whether the inputs are correct	<ul style="list-style-type: none"> <li>- Filling in the wrong email causes the input box to turn red.</li> <li>- Not matching passwords cause them to turn red</li> </ul>
4	M	5	As a developer I want a database so that I can store all the information of my webshop in it.	SQLite	An SQLite database file exists	<ul style="list-style-type: none"> <li>- SQLite file exists on git.</li> <li>- SQLite file has all the tables from the ERD.</li> </ul>
5	M	8	As a developer I want a database so that I can store all the information of my webshop in it.	Queries	Write queries for the data sets	<ul style="list-style-type: none"> <li>- Queries for CRUD exist.</li> <li>- Queries for specific requirements, as specified by the API, exist</li> </ul>
6	M	13	As a developer I want a database so that I can store all the information of my webshop in it.	Method calls	Crud methods exist for each model to interact with the database	<ul style="list-style-type: none"> <li>- Create</li> <li>- Read</li> <li>- Update</li> <li>- Delete</li> </ul>
7	M	13	As a developer I want a database so that I can store all the information of my webshop in it.	Models	Models exist for each table entity	<ul style="list-style-type: none"> <li>- User</li> <li>- Product</li> <li>- Order</li> <li>- Address</li> </ul>
8	M	5	As a developer I want a database so that I can store all the information of my webshop in it.	API Documentation	Create documentation stating each API url you can make, what arguments you can supply it and what it will return to the caller	<ul style="list-style-type: none"> <li>- Users</li> <li>- Wish lists</li> <li>- Orders</li> <li>- Products</li> </ul>
9	M	13	As a developer I want a database so that I can store all the information of my webshop in it.	API Connection	Implement all the API methods as stated in the documentation	<ul style="list-style-type: none"> <li>- Users</li> <li>- Wish lists</li> <li>- Orders</li> <li>- Products</li> </ul>
10	M	3	As a developer I want a ERD so that I know how big the database will be.	ERD	Create an ERD matching each entity to the requirements	<ul style="list-style-type: none"> <li>- All entities as described by the requirements are mapped.</li> </ul>
11	M	5	As a user I want to access a details page so that I can see the description about the coffee	Details page	Create the product details page	<ul style="list-style-type: none"> <li>- Contains the product name, description, price, origin and aromas.</li> <li>- Contains a menu for adding to cart, favoriting or adding the item to wish list</li> <li>- Contains list of recommended / similar products</li> </ul>
12	M	1	As a user I want to access a details page so that I can see the description about the coffee	Link details page	Create links to the details page	<ul style="list-style-type: none"> <li>- The main products page should link to the details page</li> </ul>
13	M	5	As a developer I want to map data to objects so that I can use the objects on the website.	Account Model	Create model for user account in the server	<ul style="list-style-type: none"> <li>- Models for user accounts have the same fields as their database counterparts</li> <li>- Models for user accounts have a list of favorite products &amp; wish products.</li> <li>- Models for user accounts have a list of orders</li> </ul>
14	M	5	As a developer I want to map data to objects so that I can use the objects on the website.	Product Model	Create model for product in the server	<ul style="list-style-type: none"> <li>- Product model has the same fields as its database counterpart.</li> <li>- Product model has a list of aromas</li> </ul>
31	M	5	As a developer I want to map data to objects so that I can use the objects on the website.	Order Model	Create a model for an order in the server	<ul style="list-style-type: none"> <li>- Order has a list of products.</li> <li>- Order has an order id.</li> <li>- Order has a purchaser / user id</li> <li>- Order has a date</li> </ul>
16	M	2	As a user I want to login to the website so I can buy things	Local storage	Changing pages persists the login	<ul style="list-style-type: none"> <li>- The email and password is saved in local storage</li> </ul>
17	M	3	As a user I want to login to the website so I can buy things	User page	Create a user page	<ul style="list-style-type: none"> <li>- User page contains name, username, address etc.</li> <li>- User page allows changing of name, address etc.</li> </ul>
18	M	3	As a user I want to login to the website so I can buy things	Retrieve user information	Secure user API endpoint to only allow retrieval of data of the specific user	<ul style="list-style-type: none"> <li>- API data only retrievable for correct user</li> </ul>
19	M	3	As a user I want to be able to select multiple items in multiple quantities, so that I can purchase them	Persist cart	Cart data persists through page changes	<ul style="list-style-type: none"> <li>- All items are saved per individual user for a session</li> </ul>
20	M	1	As a user I want to be able to select multiple items in multiple quantities, so that I can purchase them	Add cart button to list	A cart button exists for each item in the products list page	<ul style="list-style-type: none"> <li>- Button exists on product details page.</li> <li>- Button exists on product list page</li> </ul>
21	M	5	As a user I want to be able to select multiple items in multiple quantities, so that I can purchase them	Current cart view	A cart page exists where all the item currently in the cart are visible, as well as a total sum of their price	<ul style="list-style-type: none"> <li>- Cart has current user.</li> <li>- Cart has current address to ship to.</li> <li>- Cart has sum of price.</li> <li>- Cart has rows of item names, image and their price</li> </ul>

22	M	1	As a user I want to be able to select multiple items in multiple quantities, so that I can purchase them	Checkout button	Button exists that when clicked creates order	- Submit button formats and posts to server
24	M	5	As a user I want to be able to select multiple items in multiple quantities, so that I can purchase them	Persist & validate	Server persists and validates the cart data	- Server accepts data - Server redirects to success or fail page. - Server validates order data - Server validates user that made the order
25	M	3	As a user I want to be able to keep a wish list so that I can look back at all the different coffees I still want to try	Add to wish list	Buttons exist to add the product to the wish list	- A button exists on the product list view. - A button exists on the product details view. - Table exists on user page.
26	M	5	As a user I want to be able to keep a wish list so that I can look back at all the different coffees I still want to try	See wish list on user page	A table exists on the user page that shows all the items in the user's wish list	- Table lists all wish list items. - Wish list items have a 'remove' button to remove them from list - Wish list items have a 'add to cart' button to add the item to cart
27	M	2	As a user I want to be able to keep a wish list so that I can look back at all the different coffees I still want to try	Make wish list public	Next to the table on the user's page a toggle exists to make the wish list private	- Toggle exists. - Toggle defaults to false
28	M	13	As a user I want to be able to keep a wish list so that I can look back at all the different coffees I still want to try	View all public wish lists	A page that shows a table of all the wish lists	- A table view of all the items. - Table shows username and amount of products - Table page is reachable from the menu bar
29	M	8	As a user I want to be able to keep a wish list so that I can look back at all the different coffees I still want to try	Wish list details page	A details view of a wish list, showing its owner's first name as well as all the items in the list	- Shows owner name - Shows all items in the list. - Clicking item opens detail page. - Item on the rows have an 'add to cart' button
31	M	13	As a developer I want Use Case Descriptions so that I can use it to see all the interactions.	Use Case Descriptions	Create use cases for all the required functionality, including the extra features	- User logs in description is created - User creates an account description is created - User places an order description is created - User changes password description is created - User sets wish list to public description is created - User adds an item to the cart description is created
32	M	13	As a developer I want a class diagram so that I know which classes are for what and how I must implement them.	Class Diagram of Domain	Create a class diagram of all the domain models, the database wrapper and all relationships between them	- All domain models have been modeled - The database wrapper has been modeled - The relationships have been modelled
33	M	13	As a developer I want sequence diagrams so I can see all the actions on the client and server side.	Sequence Diagrams	Create sequence diagrams of all the required interactions (see acceptance criteria)	- SD for registering a new user exists - SD for logging in exists - SD for adding a product to the cart exists - SD for completing a purchase (set an order) exists - SD for deleting a user exists - SD for visualizing the most sold items exists

# SPRINT 2 BURN DOWN CHART

Day	Ideal	Actual	Date		
start	153	153	31-10-2016		
1	133	153	31-10-2016		
2	114	145	1-11-2016		
3	95	145	2-11-2016		
4	75		3-11-2016		
5	57		4-11-2016		
6	38		7-11-2016		
7	19		8-11-2016		
8	0		9-11-2016		



# SPRINT 3 BACKLOG

ID	Priority	Time Estimation	Corresponding Story	Tasks	Acceptance criteria
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