

Release and Sprint Plans

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NOTE:

The acceptance criteria for the user stories involved in the first sprint is its own sub task connected to the corresponding user story.

Release Plan

Release 1

Delivery date: end week 9

Total Story Points: 22

Provide an initial web structure which includes the basic functionality and database scaffolding for the customer stakeholder. Upon the completion of this release customers will have the ability to place orders with the company and view information on how to do so.

Preliminary Front End and Database Scaffolding Setup

Creation of the pages which house the primary Customer stakeholder functionality

Story ID	Story Title	Story Points
SRCX35	Company Home Page	2
SRCX16	Customer Account Creation	4
SRCX36	Customer Login Page	2
SRCX17	Customer Online Order Submission	4
SRCX9	Unique Identifier for Orders	1
	Story Point Sub-Total:	15

Front End Support Pages

Provide Customers with various support information

Story ID	Story Title	Story Points
SRCX31	Secure Passwords	1
SRCX25	Company Contact Information Page	2
SRCX37	Company About Page	2
SRCX28	Customer FAQ Page	2
	Story Point Sub-Total:	7

Release 2

Delivery date: end week 14

Total Story Points: 28

Provide initial functionality for the Drivers and Operator Stakeholders so that they may be able to manage and perform incoming orders from the customer front-end created in the last release.

Initial Scaffolding and Page Creation for Drivers

Creation of the pages which house the basic operations performed by the delivery drivers

Story ID	Story Title	Story Points
SRCX39	Driver Login page	2
SRCX38	Driver Management Page	4
SRCX21	Driver Pickup Form	4
SRCX14	Package Warehouse Arrival Record	4
	Story Point Sub-Total:	14

Initial Scaffolding and Page Creation for Operators

Creation of pages which provide the basic operations performed by the operator

Story ID	Story Title	Story Points
SRCX40	Operator Login Page	2
SRCX42	Operator Management Page	4
SRCX41	View Current Orders and Status	6
SRCX18	Payment Information Access	2
	Story Point Sub-Total:	14

Release 3

Delivery date: Not Known

Total Story Points: 26

Extend upon the functionality provided to all stakeholders to streamline and optimize their day-to-day processes. At the conclusion of this release the Driver stakeholder functionality will be largely complete with the customer functionality will have progressed further.

Additional Customer Functionality

Further functionality provided to the customer in order to allow them to better manage their account and orders

Story ID	Story Title	Story Points
SRCX27	Special Delivery Orders	2
SRCX29	Request Re-delivery of Package	4
SRCX26	Customer Order History	2
SRCX23	Customer Account Information Change	2
SRCX24	Customer Favorite Recipients	4
	Story Point Sub-Total:	14

Additional Driver and Operator Functionality

Creation of pages which provide the basic operations performed by the operator

Story ID	Story Title	Story Points
SRCX15	Mark Orders as Complete	4
SRCX19	Driver Roster	6
SRCX12	Service Range Index	2
	Story Point Sub-Total:	12

Release 4

Delivery date: Not Known

Total Story Points: 40

Implement the 'nice to have' functionality for all stakeholders that isn't critical to the basic functionality of the system but would benefit all stakeholders from a feature perspective.

Driver Management Features

Further functionality provided to the customer in order to allow them to better manage their account and orders

Story ID	Story Title	Story Points
SRCX20	Log Driver Mileage	8
SRCX32	Driver Geo-Location Tracking	16
SRCX33	Automated Route Calculation	16
	Story Point Sub-Total:	40

Delivery Schedule

Each release will involve two sprints.

Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Sprint 1		Sprint 2		Sprint 3		Sprint 4	
Release 1				Release 2			

Week 14		Week 15					
Sprint 5		...					
Release 3, 4, ...							

Sprint Plan

In order to plan the time estimates the following process will be used, firstly, the PERT Estimation Process will be applied in conjunction with extensive discussion with the developers to gauge the approximate time it will take for the following time categories (Optimistic, Most Likely, Pessimistic). An example of this is provided for the first task of the first user story in the sprint, however this process was conducted for all of the stories covered in the sprint.

SRCX82 Create Local Repository and Remote and add developers to group

PERT Estimation Technique

$$a = 1$$

$$m = 2$$

$$b = 3$$

$$\text{Where } \frac{a + 4m + b}{6}$$

$$= \frac{1 + 4(2) + 3}{6}$$

$$= \frac{12}{6}$$

$$= 2$$



Therefore, task SRCX82 has an estimated time of 2 hours.

Sprint 1

Total Story Points: 15

Total Hours: 70 hours

Current Velocity: 15

Story ID: SRCX35

Title: Company Home Page

Task ID	Task Description	Estimate	Taken
SRCX82	Create Local Repository and Remote and add developers to group	1 hour	
SRCX48	Add Home Page route to routing file	1 hour	
SRCX49	Create Controller for Home Page to handle route	1 hour	
SRCX83	Mockup Home Page Design	2 hours	
SRCX50	Create Home Page View	1 hour	
SRCX69	Create Navigation Bar Partial	1 hour	

SRCX70	Create Home Page Banner and Main Content	1 hour	
SRCX68	User Acceptance Criteria	1 hour	
SRCX84	Setup Deployment Server	2 hours	
SRCX86	Deploy to Production Server	1 hour	
	Story Points: 2	Total Hours: 12 hours	

Story ID: SRCX16

Title: Customer Account Creation

Task ID	Task Description	Estimate	Taken
SRCX85	Design Database Schema for Customers Table	2 hours	
SRCX43	Database Scaffolding	1 hour	
SRCX44	Database Migration	1 hour	
SRCX72	Input Validation	2 hours	
SRCX45	Create Controller	1 hour	
SRCX87	Mockup Customer Account Creation Page Design	3 hours	
SRCX46	Create and Style View	4 hours	
SRCX71	Write Test Cases	2 hours	
SRCX54	Refine Auto-Generated Customer Account Form	3 hours	
SRCX73	User Acceptance Criteria	2 hours	
SRCX89	Deploy to Production Server	1 hour	
	Story Points: 4	Total Hours: 22 hours	

Story ID: SRCX36**Title: Customer Login Page**

Task ID	Task Description	Estimate	Taken
SRCX51	Create Sessions Controller	1 hour	
SRCX88	Mockup Login Page Design	2 hours	
SRCX53	Create and Style Login View	2 hours	
SRCX52	Creation of Login Form	2 hours	
SRCX74	Write Test Cases	2 hours	
SRCX75	User Acceptance Criteria	2 hours	
SRCX90	Deploy to Production Server	1 hour	
	Story Points: 2	Total Hours: 12 hours	

Story ID: SRCX17**Title: Customer Online Order Submission**

Task ID	Task Description	Estimate	Taken
SRCX92	Design Database Schema for Orders Table	2 hours	
SRCX55	Generate Database Scaffolding for Orders Table	1 hour	
SRCX56	Migrate Database Schema	1 hour	
SRCX76	Input Validation	2 hours	
SRCX77	Write Test Cases	2 hours	
SRCX92	Mockup Online Order Page Design	3 hours	
SRCX57	Create and Style View	4 hours	
SRCX78	Refine Auto-Generated Online Order Form	2 hours	
SRCX79	User Acceptance Criteria	2 hours	
SRCX94	Deploy to Production Server	1 hour	
	Story Points: 4	Total Hours: 20 hours	

Story ID: SRCX9

Title: Unique Identifier for Orders

Task ID	Task Description	Estimate	Taken
SRCX58	Primary Key Constraint for Scaffolding	1 hour	
SRCX80	Write Test Cases	2 hours	
SRCX81	User Acceptance Criteria	1 hour	
SRCX91	Deploy to Server and Run Production Migrations	1 hour	
	Story Points: 1	Total Hours: 5 hours	

Burn Down Chart Sprint One

The ideal burn down for sprint one involves the completion of all user stories defined, with none remaining to be completed in the next sprint. The fifteen story points account for 70 hours' worth of estimated work over two weeks, if the estimates are correct then that will mean an average work load of 5 hours a day, with a final push of 10 hours toward the end. This value is perfect for an initial sprint as any issues that arise can be completed as they happen, as the five-hour work day allows for extra time to handle problems.

