

Shiva Exports Ltd

# Logistics Management System

Project Plan v2.0

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## 1. Executive Summary

Objective	To design and develop a Logistics Management System aiming to streamline logistical processes and to provide high-level overview of purchases and transfers for Shiva Exports Ltd. The system will package different tools to help employees with their daily challenges, such as importing assets, planning efficient routes, and optimizing truck loads.
Corporate Goals Addressed	The system will improve equipment tracking from purchasing locations to warehouses. It will aid in shortening delivery times, reducing costs and minimizing human error occurrences.
Planned Start Date	2019-09-23
Planned End Date	2020-03-27

## 2. Project Approvers, Reviews and Distribution List

Project Role	Name	E-mail	Date
Stakeholder	Tanya Arora	tanya@copierexports.com	2020-01-17
Team Member	Saad Khan	saad.jamil.khan@gmail.com	2020-01-17
Team Member	Veronyque Lemieux	veronyque.lemieux@gmail.com	2020-01-17
Team Member	Sergio Lombana	sergiolombana101@gmail.com	2020-01-17
Team Member	Ian Miranda	ianmiranda910@gmail.com	2020-01-17
Team Member	Jeremy Thibeau	thibeau.jeremy@gmail.com	2020-01-17

## 3. Scope

In Scope	Out of Scope
Web Application	Mobile app for truck driver
Asset Status Tracker	Mapping of warehouse for space management
Route Planner	GPS Tracking Software

Truck Load Optimizer	Notification System
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## 4. Deliverables

Deliverable	Description
User Interface	A simple and easy to use interface that allows users to quickly navigate from one feature to another
Database Storage	A secure and reliable database where the company can store their data
Truck Load Optimization Software	A feature that will increase efficiency when loading a truck by informing warehouse workers about the truck storage limits
Route Planner Software	A feature that will calculate the best route possible for the trucks by using AI

## 5. Assumptions

The project makes assumptions that the users will be using high speed internet browsers on desktop computers. The project assumes that the database and website app will continue to be functional on Amazon Web Services. The project also makes the assumption that the stakeholder will be providing the necessary information to populate the system with data for the assets.

## 6. Dependencies

The project is dependent on Amazon Web Services for website app and database hosting. The app will maintain a connection to a database separate from Shiva Exports' main database in order to track the inventory.

## 7. Risk Management

Potential Risk	Severity (H/M/L)	Likelihood (H/M/L)	Management Strategy
Unable to fetch live data from Arion Trak's tracking software due to unavailable API	H	M	Research software during discovery phase and seek for alternatives using other GPS tracking systems
Unable to fetch data from Buyers Lab software due to unavailable API	M	M	Research software during discovery phase and consider using web scraping script to obtain data
Scope creep	M	L	Gain best understanding of business needs and emphasize inability to add features for initial release of system
Lack of business knowledge	L	L	Meet and continuously communicate with Shiva Exports Ltd to fill knowledge gaps

## 8. Communication

### a. Reporting

Report	Audience	Frequency
Sprint 3 Report: - System Requirements - Analysis and Design	Saad Khan, Veronyque Lemieux, Sergio Lombana, Ian Miranda, Jeremy Thibeau, Tanya Arora	N/A

Sprint 4 Report: - Wireframes/Prototype - Technical Requirements	Saad Khan, Veronyque Lemieux, Sergio Lombana, Ian Miranda, Jeremy Thibeau, Tanya Arora	N/A
Sprint 5: - Project Status Report (summary, upcoming objectives, issues/risks) - Updated Project Plan	Saad Khan, Veronyque Lemieux, Sergio Lombana, Ian Miranda, Jeremy Thibeau, Tanya Arora	N/A
Sprint 6: - Project Status Report (summary, upcoming objectives, issues/risks)	Saad Khan, Veronyque Lemieux, Sergio Lombana, Ian Miranda, Jeremy Thibeau, Tanya Arora	N/A
Sprint 7: - System Implementation (summary, scope, requirements, current status, future plans) - Demo + presentation	Saad Khan, Veronyque Lemieux, Sergio Lombana, Ian Miranda, Jeremy Thibeau, Tanya Arora	N/A
Sprint 8: - Project Status Report (summary, upcoming objectives, issues/risks)	Saad Khan, Veronyque Lemieux, Sergio Lombana, Ian Miranda, Jeremy Thibeau, Tanya Arora	N/A
Sprint 9: - System Implementation - Demo of system + presentation - Closure Report	Saad Khan, Veronyque Lemieux, Sergio Lombana, Ian Miranda, Jeremy Thibeau, Tanya Arora	N/A

## b. Meetings

Meeting	Purpose	Attendees	Frequency
Weekly Team Meeting	Discuss and work on sprint deliverables; address any questions or concerns	Saad Khan, Veronyque Lemieux, Sergio Lombana, Ian Miranda, Jeremy Thibeau	Once or twice per week
Monthly Stakeholder Meeting	Discuss progress and demonstrate features/user interface implemented up to date	Tanya Arora, Saad Khan, Veronyque Lemieux, Sergio Lombana, Ian Miranda, Jeremy Thibeau	Once per month

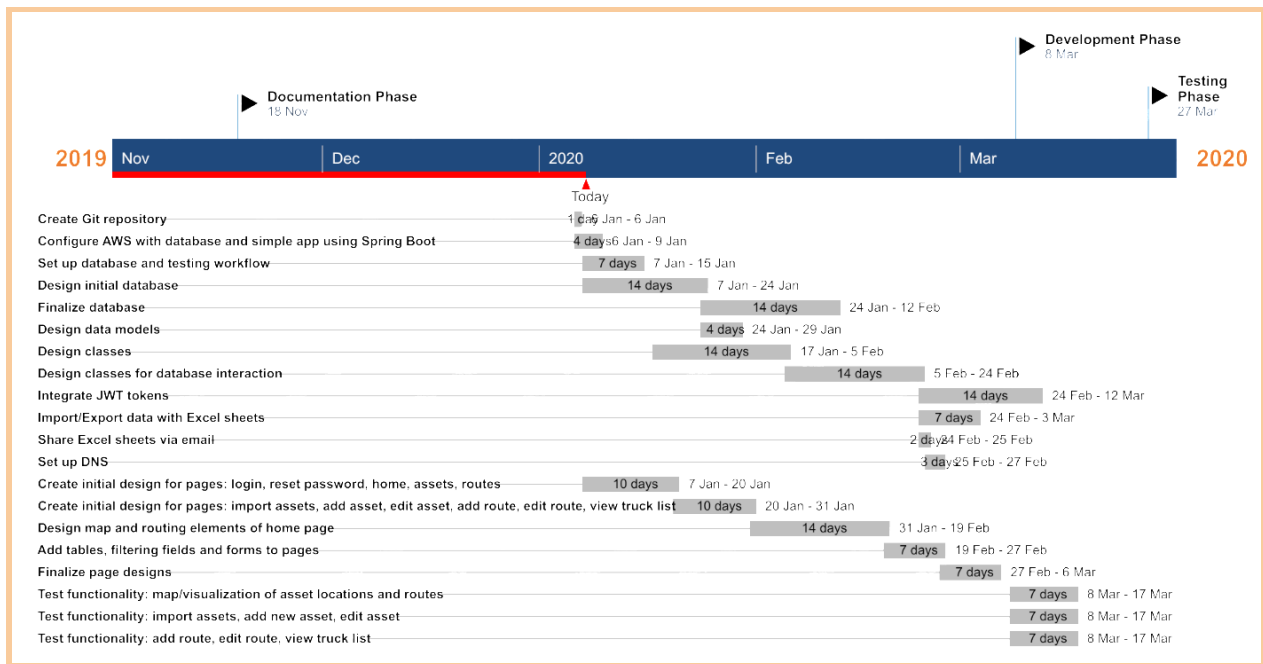
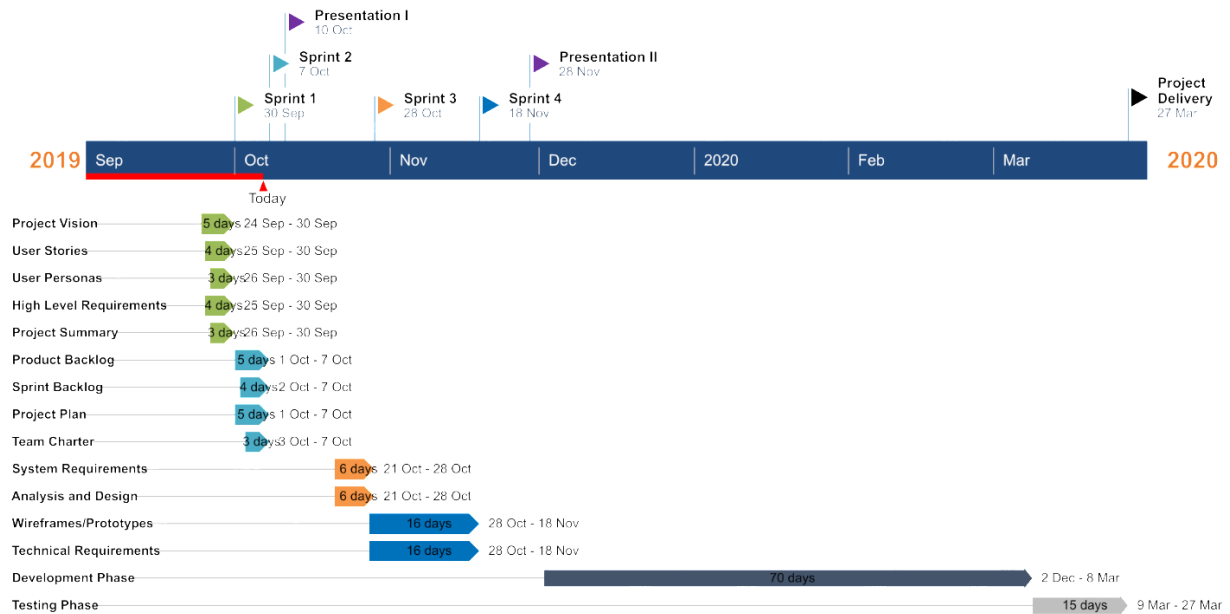
## 9. Task Listing (WBS- Work Breakdown Structure)

Reference	Tasks	Duration	Dependency
Documentation			
A	User Personas	1 day	N/A
B	User Stories	2 days	A
C	Project Vision	3 days	N/A
D	High level Requirements	3 days	C
E	Project Summary	3 days	C, D
F	Product Backlog	2 days	A
G	Sprint Backlog	2 days	A, F
H	Project Plan	4 days	C, D, E, G
I	System Requirements	3 days	C, H
J	Analysis and Design	3 days	I
K	Wireframes	3 days	F, G, H
L	Technical Requirements	3 days	I, J
Back-End Development			
M	Create git repository	1 day	N/A
N	Configure AWS with database and simple app using Spring Boot	4 days	N/A
O	Set up database and testing workflow	7 days	N
P	Design initial database	14 days	O
Q	Finalize database	14 days	P
R	Design data models	4 days	O
S	Design classes	14 days	O
T	Design classes for database interaction	14 days	O
U	Integrate JWT tokens	14 days	S, T

V	Import/Export data with Excel sheets	7 days	S, T
W	Share Excel sheets via email	2 days	S, T
X	Set up DNS	3 days	T
Front-End Development			
Y	Create initial design for pages: login, reset password, home, assets, routes	14 days	N/A
Z	Create initial design for pages: import assets, add asset, edit asset, add route, edit route, view truck list	14 days	Y
AA	Design map and routing elements of home page	14 days	Y
BB	Add tables, filtering fields and forms to pages	7 days	Y, Z
CC	Finalize designs	7 days	Y - BB
Testing			
DD	Test functionality: map/visualization of asset locations and routes	7 days	M - CC
EE	Test functionality: import assets, add new asset, edit asset	7 days	M - CC
FF	Test functionality: add route, edit route, view truck list	7 days	M - CC



## 10. Gantt Chart



## 11. Milestones

Major Activity or Milestone	Estimated Milestone Target Date	Owner/Reviewer Team Members
Finish documentation phase	2019-12-14	Saad Khan, Veronyque Lemieux, Ian Miranda, Jeremy Thibeau, Sergio Lombana
Product Owner feedback and approval	2019-12-20	Tanya Arora
Start development phase	2020-01-06	Saad Khan, Veronyque Lemieux, Ian Miranda, Jeremy Thibeau, Sergio Lombana
Finish development phase & start testing phase	2020-03-08	Saad Khan, Veronyque Lemieux, Ian Miranda, Jeremy Thibeau, Sergio Lombana
Delivery of project	2020-03-27	Saad Khan, Veronyque Lemieux, Ian Miranda, Jeremy Thibeau, Sergio Lombana

## 12. RAM – Responsibility Assignment Matrix

\ ROLES TASKS	Jeremy Thibeau	Veronyque Lemieux	Saad Khan	Ian Miranda	Sergio Lombana
<b>Documentation</b>					
Product Backlog	Responsible	Accountable	Accountable	Accountable	Accountable
Project Plan	Accountable	Responsible	Accountable	Accountable	Responsible
Sprint Backlog	Accountable	Accountable	Accountable	Responsible	Accountable
System Requirements	Accountable	Accountable	Responsible	Accountable	Accountable
Analysis and Design	Responsible	Accountable	Accountable	Responsible	Accountable

Wireframes	Accountable	Responsible	Accountable	Accountable	Accountable
Technical Requirements	Accountable	Accountable	Accountable	Accountable	Responsible
<b>Back-End Development</b>					
Create git repository	Responsible (Primary)	Accountable	Accountable	Responsible (Secondary)	Responsible (Secondary)
Configure AWS with database and simple app using Spring Boot	Responsible (Primary)	Accountable	Accountable	Responsible (Secondary)	Responsible (Secondary)
Set up database and testing workflow	Responsible (Primary)	Accountable	Accountable	Responsible (Secondary)	Responsible (Secondary)
Design initial database	Responsible (Secondary)	Accountable	Accountable	Responsible (Primary)	Responsible (Secondary)
Finalize database	Responsible (Secondary)	Accountable	Accountable	Responsible (Secondary)	Responsible (Primary)
Design data models	Responsible (Primary)	Accountable	Accountable	Responsible (Secondary)	Responsible (Secondary)
Design classes	Responsible (Secondary)	Accountable	Accountable	Responsible (Primary)	Responsible (Secondary)
Design classes for database interaction	Responsible (Secondary)	Accountable	Accountable	Responsible (Secondary)	Responsible (Primary)
Integrate JWT tokens	Responsible (Primary)	Accountable	Accountable	Responsible (Secondary)	Responsible (Secondary)
Import/Export data with Excel sheets	Responsible (Secondary)	Accountable	Accountable	Responsible (Secondary)	Responsible (Primary)
Share Excel sheets via email	Responsible (Secondary)	Accountable	Accountable	Responsible (Primary)	Responsible (Secondary)
Set up DNS	Responsible (Primary)	Accountable	Accountable	Responsible (Secondary)	Responsible (Secondary)
<b>Front-End Development</b>					
Create initial design for pages: login, reset password, home, assets, routes	Accountable	Responsible (Primary)	Responsible (Secondary)	Accountable	Responsible (Secondary)

Create initial design for pages: import assets, add/edit asset, add/edit route, view truck list	Accountable	Responsible (Secondary)	Responsible (Primary)	Accountable	Responsible (Secondary)
Design map and routing elements of home page	Accountable	Responsible (Secondary)	Responsible (Primary)	Accountable	Responsible (Secondary)
Add tables, filtering fields and forms to pages	Accountable	Responsible (Primary)	Responsible (Secondary)	Accountable	Responsible (Secondary)
Finalize designs	Accountable	Responsible	Responsible	Accountable	Responsible (Secondary)
<b>Testing</b>					
Test functionality: map/visualization of asset locations/routes	Responsible	Responsible	Responsible	Responsible	Responsible
Test functionality: import assets, add new asset, edit asset	Responsible	Responsible	Responsible	Responsible	Responsible
Test functionality: add route, edit route, view truck list	Responsible	Responsible	Responsible	Responsible	Responsible

## 13. Signature Page

Role	Name	Signature	Date
Stakeholder	Tanya Arora	Tanya Arora	2020-01-17
Team Member	Saad Khan	Saad Khan	2020-01-17
Team Member	Veronique Lemieux	Veronique Lemieux	2020-01-17
Team Member	Sergio Lombana	Sergio Lombana	2020-01-17
Team Member	Ian Miranda	Ian Miranda	2020-01-17
Team Member	Jeremy Thibeau	Jeremy Thibeau	2020-01-17