Project Plan

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Agricultural Heavy Machinery Sales and Renting Management System

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1. INTRODUCTION

India ranks second worldwide in farm output. Agriculture and allied sectors amount for 13.7% of the GDP. Agricultural processes can be optimized by using machineries like tractors, harvesters, tillers etc. in an efficient manner. Renting these equipment's can be the best solution for low cost farming, which is widely prevalent in India. Agriculture heavy machineries sales and rental system aim to optimize the usage of the agricultural machinery by farmers and provides profit to the company or government by efficient management.

2. PROJECT OVERVIEW

2.1 Current System or Situation

The following processes that are being followed are found to be uneconomical and inefficient regarding agricultural heavy machineries management:

1. Cattle are still used for large number of hectares of land. Human laborers are used for harvesting and other purposes.
2. Due to poor financial conditions farmers are not able to buy the costlier machineries.
3. Unavailability of agricultural machineries during harvest season due to high demand.
4. Farmers incur loss by paying high rents for agricultural machineries from private local lenders.
5. Private local lenders are earning less profit due to high commission from agents.
6. Different commission rates offered by different agents.

2.2 Project Scope

Agricultural heavy machineries sales and renting management system aims to automate the following process:

- Availability of machineries at low rent rates throughout the year by predictions using previous transactions
- Discounts on machineries if purchased in large scale.
- Status tracking of rented machineries per day basis/ per week/ per month basis
- Universalization of commission rates
- Daily profit/loss tracking using transaction tables.
- Region wise availability and need for machineries report generation.
- Bonus for agents based on the number of customers he/she registers.

2.3 Key Contacts and Stakeholders

Name	Registration Number	Phone Number
Priyanka Honale	17MCS0089	9921101912
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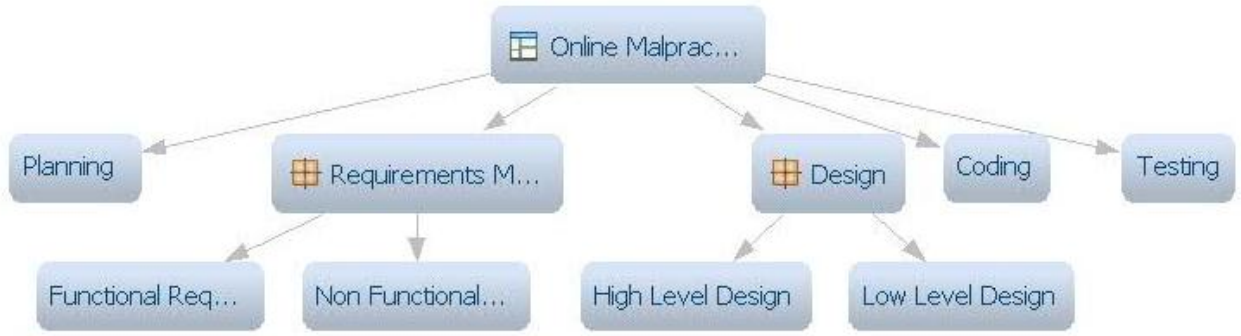
3. PROJECT SCHEDULE

3.1 Major Project Milestones

Milestone	Estimated Start Date	Estimated Completion Date	Estimated Hours	Number of Resources	Number of Days
Project Planning	**8/1/2017**	**8/8/2017**	**6**	**3**	**7**
Software Requirements Specification	**8/9/2017**	**8/27/2017**	**18**	**3**	**18**
High Level Design	**8/28/2017**	**9/10/2017**	**24**	**3**	**18**
Detailed Design	**9/11/2017**	**9/20/2017**	**36**	**3**	**7**
Coding	**9/21/2017**	**10/20/2017**	**66**	**3**	**33**
Testing	**10/21/2017**	**10/30/2017**	**20**	**3**	**10**
Project Demo	**10/31/2017**	**11/8/2017**	**2**	**3**	**1**
Total Hours			**172**		

3.2 Work Break Down Structure



4. PROJECT RESOURCE REQUIREMENTS

4.1 Hardware/Software Resource Requirements

Hardware Requirements

- Minimum RAM: 1 GB
- Minimum disk space: 16 GB
- Processor Intel Core i3 DUO 3.3 GHz minimum

Software Requirements

- Windows 7 and above,
- mysql
- HTML 5
- JavaScript
- PHP 5.6
- Apache Web Server
- 2-Plan
- ArgoUML
- Chrome, FireFox, Safari browsers

5. RISK MANAGEMENT

5.1 Risk Management Strategy

Risk number	Risk Priority (H, M, L)	Risk name: brief description	Mitigation Strategy
1	High	**Hardware Failure**	Backup copies of the project code at multiple locations
2	High	**Unskilled Resources**	Planning for additional time towards training needs for the project
3	Low	**Management Policy Change**	Provide a document briefing the advantages of online management system for Agricultural machinery sales and rentals
4	Medium	**Business risk**	Sign contracts on website surety
5	High	**Server crash**	Taking backup of customer data and other data and storing it in cloud
6	Medium	**Payment Transaction risk**	Legal measures taken on failure of complete payment
7	Medium	**Resource availability risk / people risk**	Cross training among the team members and for one or two backup resources.
8	High	**Requirement risk**	Any change of requirements / failure in implementation of requirements will lead to legal measures
9	Medium	**Estimation risk**	Legal measures taken on delay of project completion

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