Task	Effort
1) **Phase 0 [P0]**	26w 0,25h
2) **Design**	5w 4d
3) **Make high level key design choices. Platforms, languages**...	2w
4) Study existing Open Source (OS) solutions	2d
5) Define programming languages to be used	2d
6) Define system platform (OS, server software etc)	2d
7) Define frameworks to be used	2d
8) Define subsystem communication protocols (e.g JSON web...	2d
9) **Produce low level design documentation. Diagrams etc**...	3w 4d
10) Domain Model	2d
11) Class Diagrams (MUW)	3d
12) ER Diagrams (MUW)	1w
13) GUI Mockup of MUW Portal	4d
14) Define test cases for phase requirements	1w
◆ 15) M9: Implementation proposal completed	
16) **Implementation**	8w
17) **Implement system components according to proposal and**...	8w
18) Integrate OS components	3d
19) Derive DB schema from ERDs	1d
20) Instantiation of DB schema in development environment	1d
21) Develop/Customize GUI based on design mockup	3d
22) **MUW**	2w 3d
23) Implement user registration [F2.10]	1d 4h
24) Implement user session handling [F2.2]	1d 4h
25) Define LUW interface [F2.3]	3d
26) Notify LUW of relevant user activity (Registration,...	1d
27) Define PUW interface [F2.4]	3d
28) Notify PUW of relevant user activity (Registration,...	1d
29) Show products/product information [F2.1]	2d
30) **PUW**	2w 2d
31) Implement external interface for receiving orders [F3.1]	3d
32) Place and order with suppliers for a new order [F3.2]	3d
33) Notify financial systems for bookkeeping and invoicing...	3d
34) Update products database with available product after...	2d
35) Prouce delivery note for new consignment [F3.3]	1d
36) **LUW**	1w 2d
37) Implement external interface for receiving order from...	3d
38) Calculate and book optimal transportation option and...	2d
39) Produce bills of lading [F4.5]	1d
40) Notify financial systems of transportational costs [F4.6]	1d
◆ 41) M11: System implementation completed	
42) **Testing and Verification**	12w 1...
43) Produce phase Test Plan	1w 0,25h
◆ 44) M10: Test plan completed and approved	
45) **MUW**	7w 1d
46) Is System working in different platforms—Linux, Windows,...	3d
47) Is the system working in various browsers—IE, Chrome,...	3d
48) Is the system globally access—system will be run from...	3d
49) Are products visible in the site [F2.1]	3d
50) Are product details available [F2.1]	3d
51) Are products classified properly [F2.1]	3d
52) Access to the systems at all times [F2.2]	3d
53) Access to home page at all times[F2.2]	3d
54) User activities tracked in the system[F2.3]	3d
55) Is Purchase order of User tracked by LUW[F2.3]	3d
56) Is a registration option available for the customer on the...	3d
57) Is the web portal available in all local languages including...	3d
58) **LUW**	2w 2d
59) Is an order placed in MUW received/accepted by MUW...	2d
60) Is Placing of orders with the supplier working.[F3.2]	2d
61) Is a delivery note produced for an consignment [F3.3]	2d
62) Is a delivery note produced for every consignment[F3.3]	2d
63) Is financial system updated with data of every transaction...	2d
64) Is database updated with product information.[F3.7]	2d
65) **PUW**	1w 3d
66) Is a transporter booked for each order placed[F4.1]	2d
67) Is a transporter booking done based on the order delivery...	2d
68) Is a transporter booking done based on the cheapest...	2d
69) Is delivery of the product reported correctly.	2d
◆ 70) M12: System testing and verification successfully completed	
71) **Phase 1 [P1]**	5w 1d
72) **Design**	3d
73) **Produce low level design documentation. Diagrams etc**...	3d
74) ER Diagrams (LUW/PUW)	1d
75) Class Diagrams (LUW/PUW)	1d
76) Define test cases for phase requirements	1d
77) **Implementation**	2w
78) **Implement system components according to proposal and**...	2w
79) Derive DB schemas from ERDs	1d
80) Instantiation of DB schema in development environment	1d
81) **MUW**	1w
82) Unregister user [F2.12]	1d
83) Notify customer of delays [F2.7]	1d
84) Cancellation of orders [F2.8]	1d
85) Change user details and information [F2.9]	1d
86) Check transportation status [F2.11]	1d
87) **PUW**	2d
88) Calculate best supplier based on customer location and...	1d
89) Request supplier quality review from UW staff [F3.6]	1d
90) **LUW**	1d
91) Update order status [F4.4]	1d
92) **Testing and Verification**	2w 3d
93) **MUW**	1w 1d
94) Does the portal support cancellation of orders[F2.8]	1d
95) Does the portal support customer notification system...	1d
96) Can the customer change his registration details in the...	1d
97) Is there a delivery tracking system in the portal[F2.11]	1d
98) Can a customer unregister from the service and the portal...	1d
99) Is there a system to track and unregister fraud and...	1d
100) **PUW**	1w 1d
101) Is a supplier booked for each order placed[F3.5]	1d
102) Is a supplier booking done based on the order delivery...	1d
103) Is a supplier/transporter booking done based on the...	1d
104) Is the supplier booked based on the product availability...	1d
105) Is the supplier quality constantly monitored.[F3.6]	1d
106) Is there a process of changing suppliers based on their...	1d
107) **LUW**	1d
108) Is there a delivery tracking system in the portal[F4.4]	1d
109) **Phase 2 [P2]**	4w 2d
110) **Design**	1d
111) **Produce low level design documentation. Diagrams etc**...	1d
112) Define test cases for phase requirements	1d
113) **Implementation**	2w
114) **Implement system components according to proposal**...	2w
115) Derive DB schemas from ERDs	1d
116) Instantiation of DB schema in development environment	1d
117) **MUW**	4d
118) Create sales forecast based upon sales history [F2.5]	1d
119) Request that PUW has sufficient supplies based on...	1d
120) Check transportation availability [F2.13]	1d
121) See transportation availability given a specific area on...	1d
122) **PUW**	1d
123) Provide promotion support for suppliers with good...	1d
124) **LUW**	3d
125) Request transporter quality review from UW staff [F4.7]	1d
126) Communicate with transporter through LaT [F4.8]	1d
127) Handle cancellation of order/transport [F4.3]	1d
128) **Testing and Verification**	2w 1d
129) **MUW**	3d
130) Is there a feedback system for a product in the porta...	1d
131) Is there a sales forecast based on a particular product...	1d
132) Are the local transportation or delivery information...	1d
133) **LUW**	1w
134) Is there a delivery tracking system in the portal[F4.3]	1d
135) Are cancellations of orders handled[F4.3]	1d
136) Is there a back up plan for a transporter unavailabilit...	1d
137) Is the transporter quality constantly monitored.[F4.7]	1d
138) Is there a process of changing transporters based on thie...	1d
139) **PUW**	3d
140) Is the supplier rated as per performance[F3.8]	1d
141) Are the good suppliers duly credited with promotional...	1d
142) Are deadlines and profit margins reasonable for supplier...	1d