

Popeyes Management App

IS 436-03 Structured Systems Analysis and Design Project

Deliverable 3: Process Modeling



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Figure 3.1 Document Tracking System Context Diagram

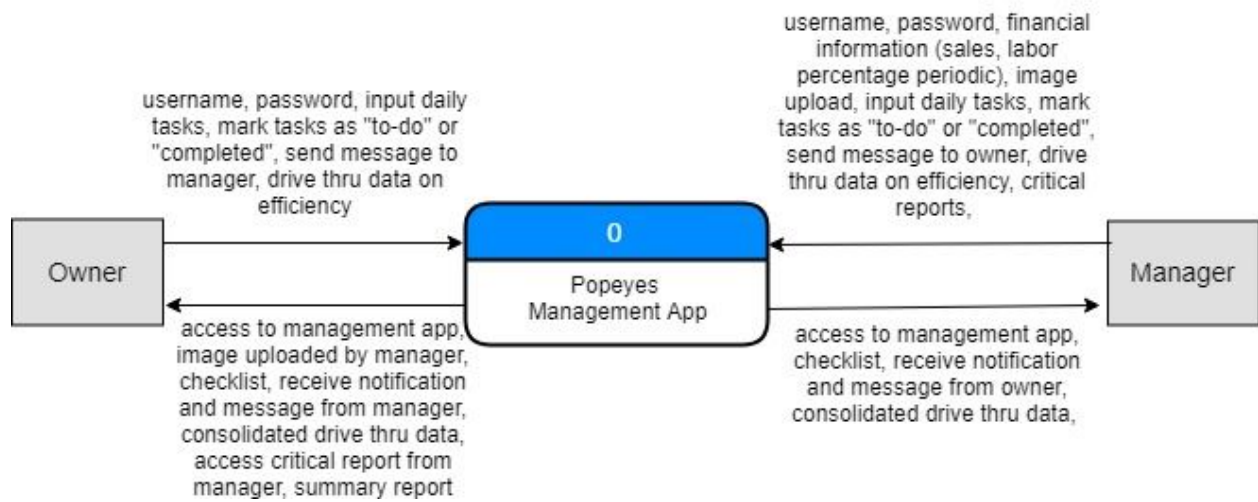


Figure 3.2 Level 0 DFD

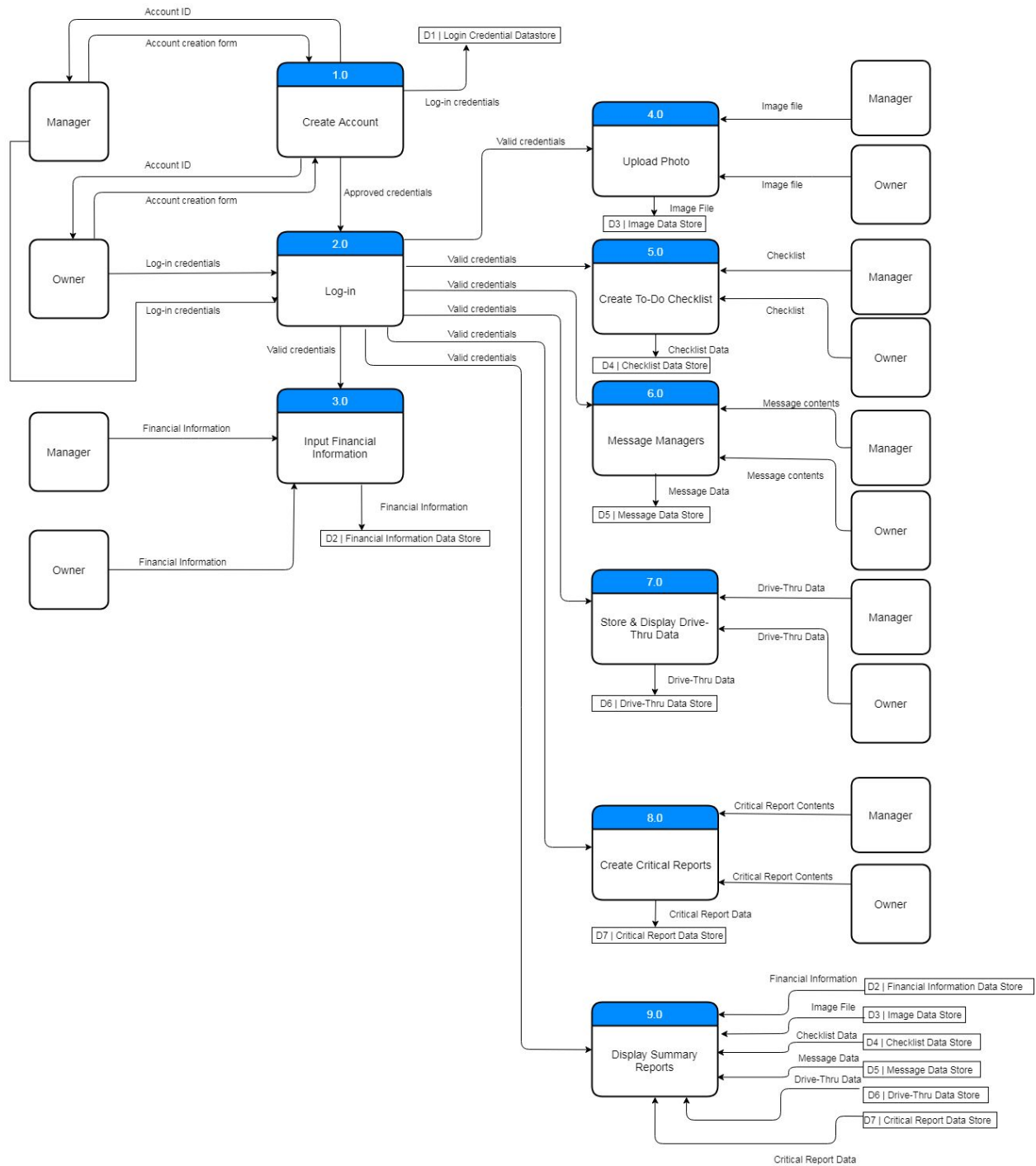


Figure 3.3 Child Diagram 1 (Create Account)

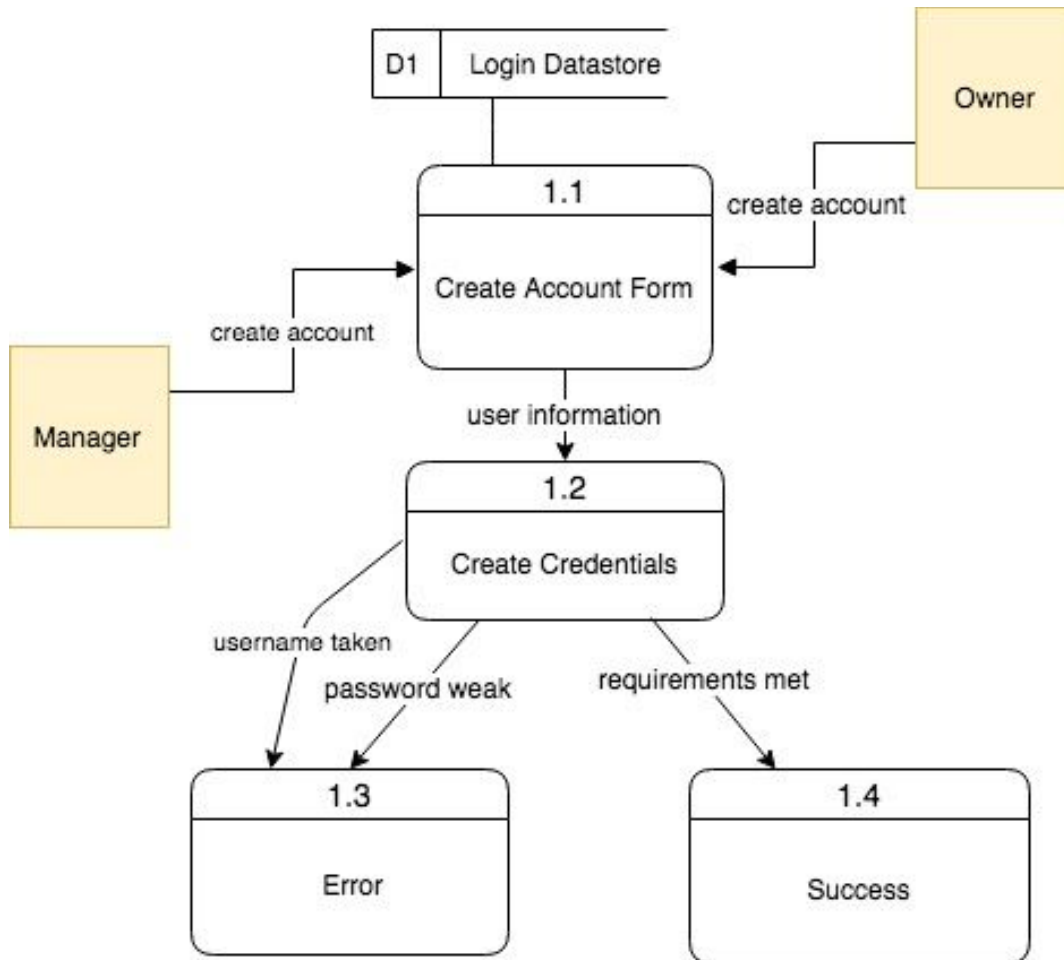


Figure 3.4 Child Diagram 2 (Log In)

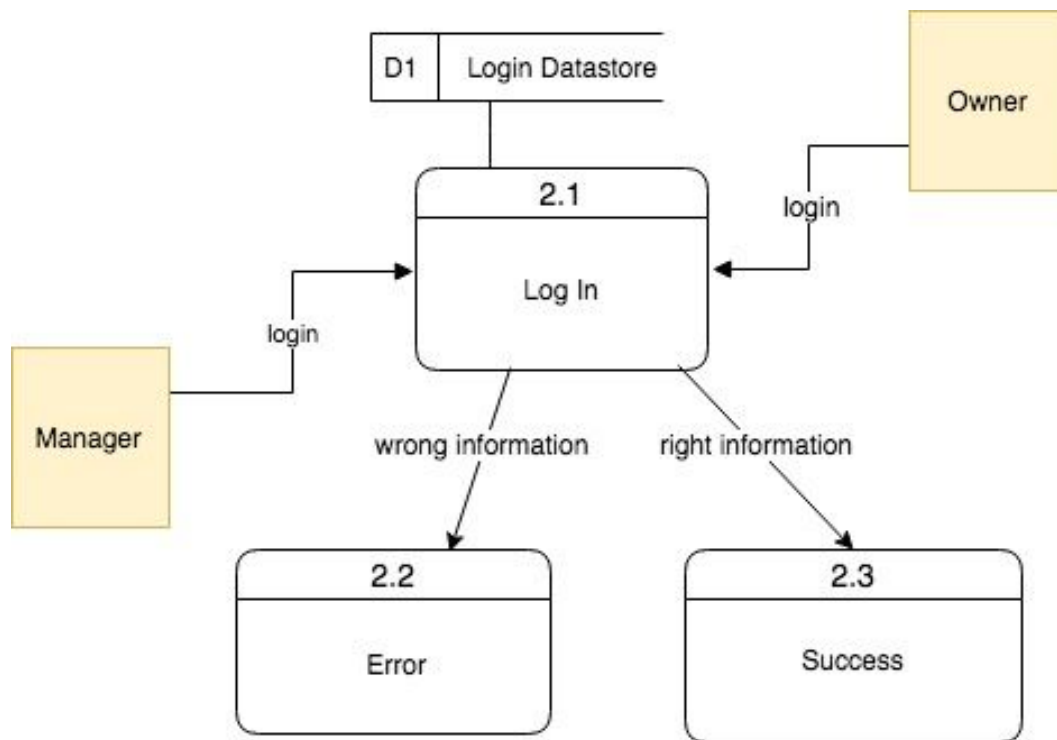


Figure 3.5 Child Diagram 3 (Input financial information)

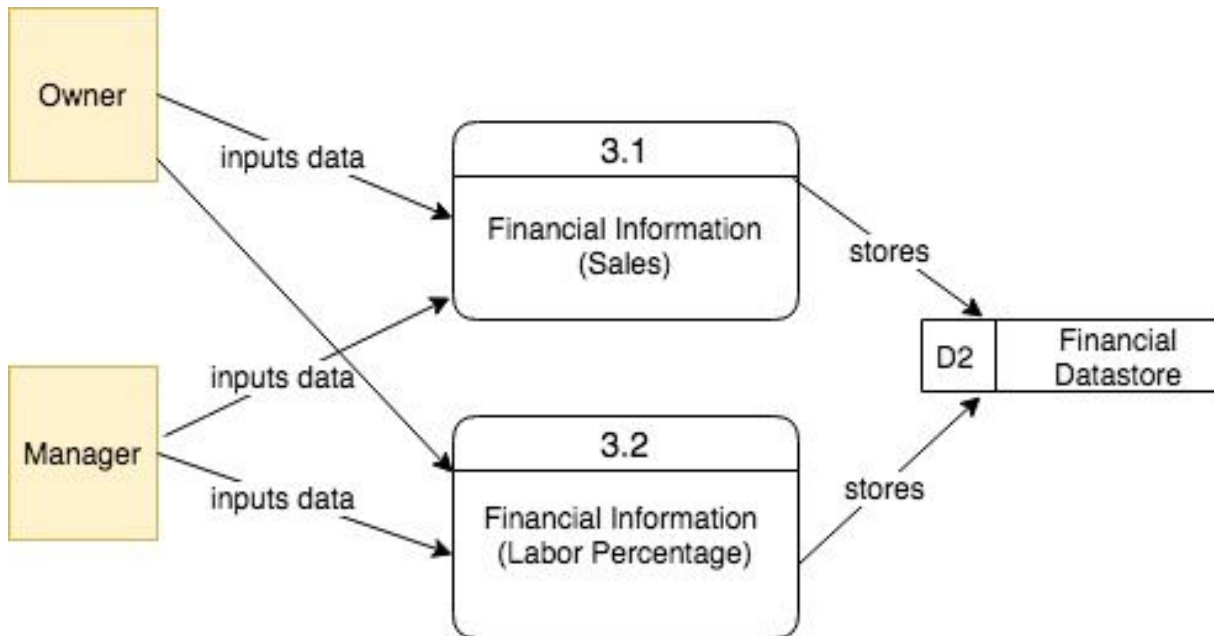


Figure 3.6 Child Diagram 4 (Image Uploads)

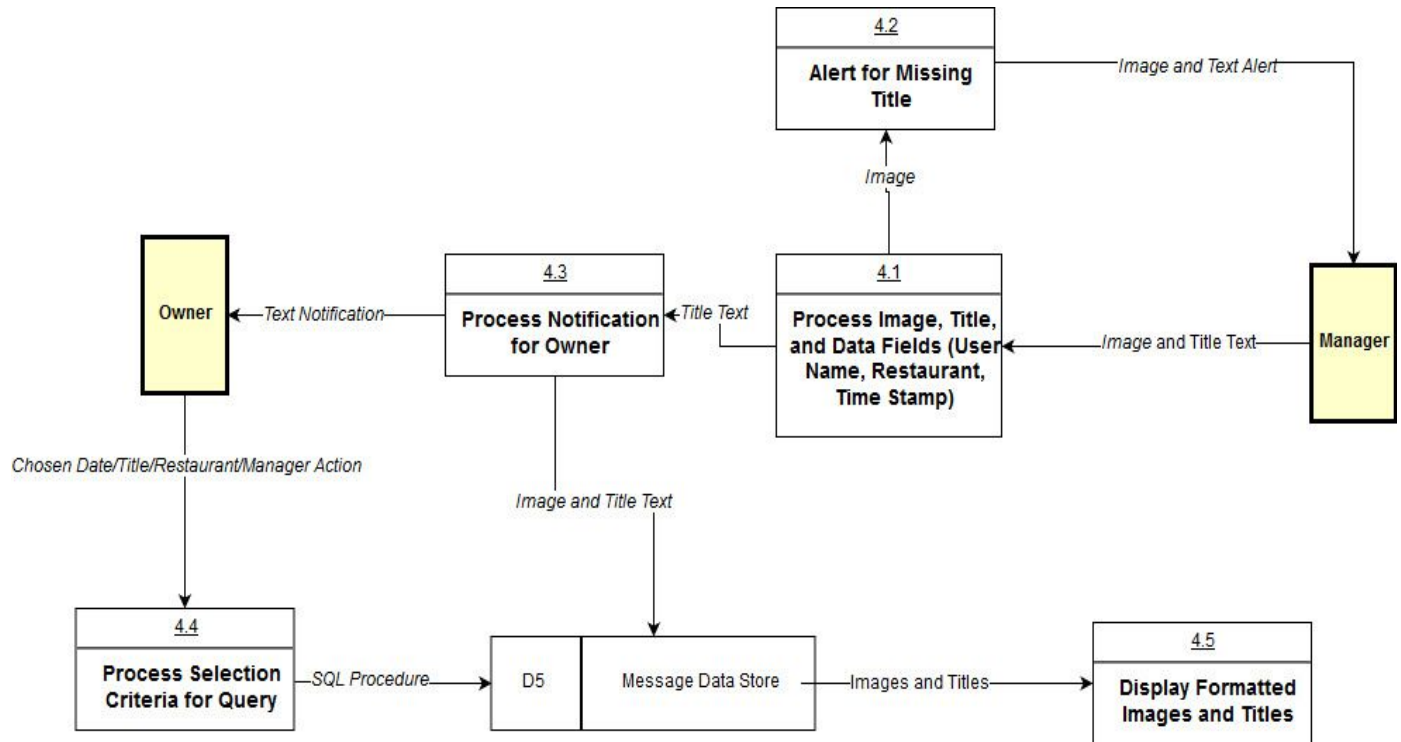


Figure 3.7 Child Diagram 5 (To-Do Checklist Process)

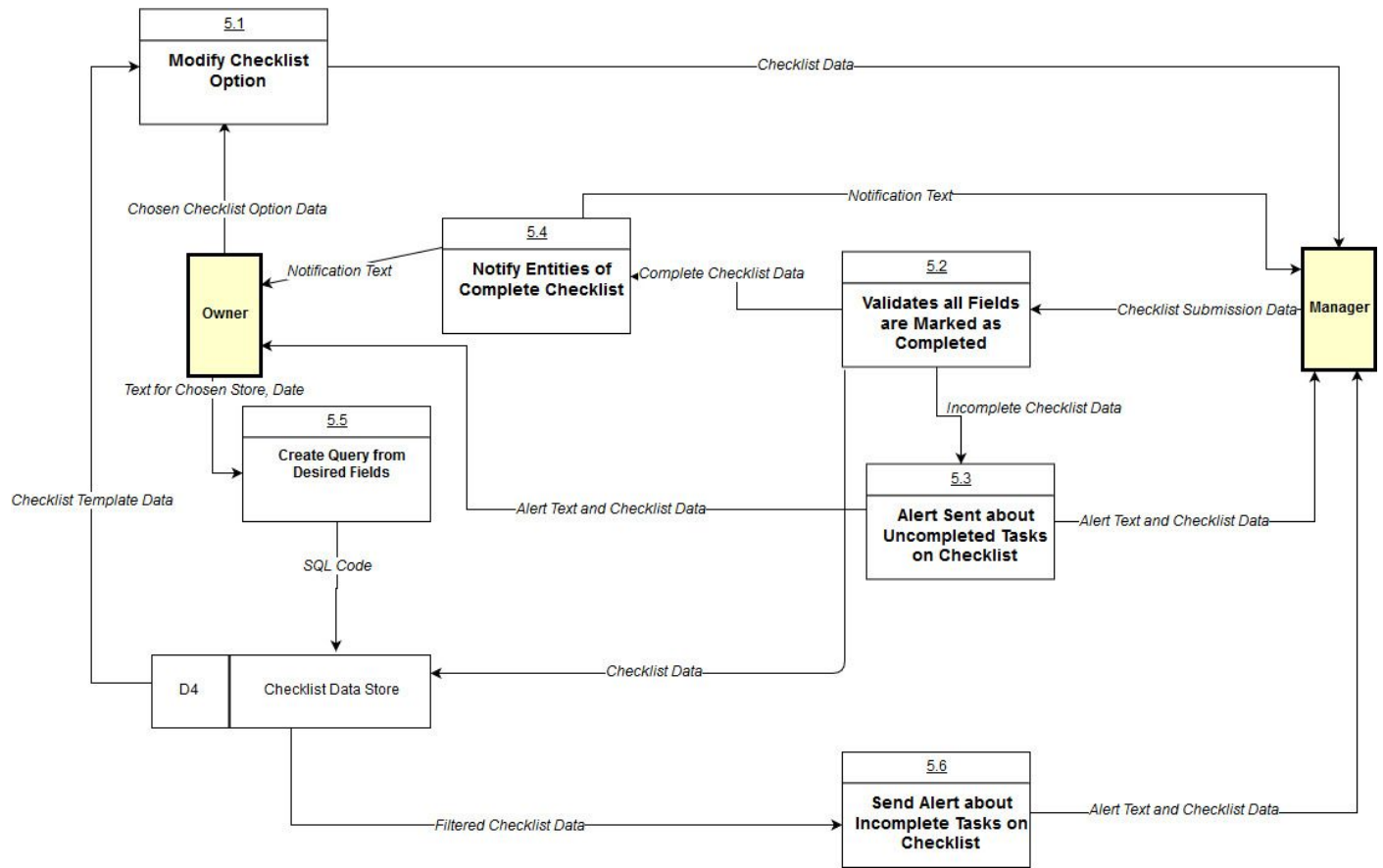


Figure 3.8 Child Diagram 6 (Messenger Process)

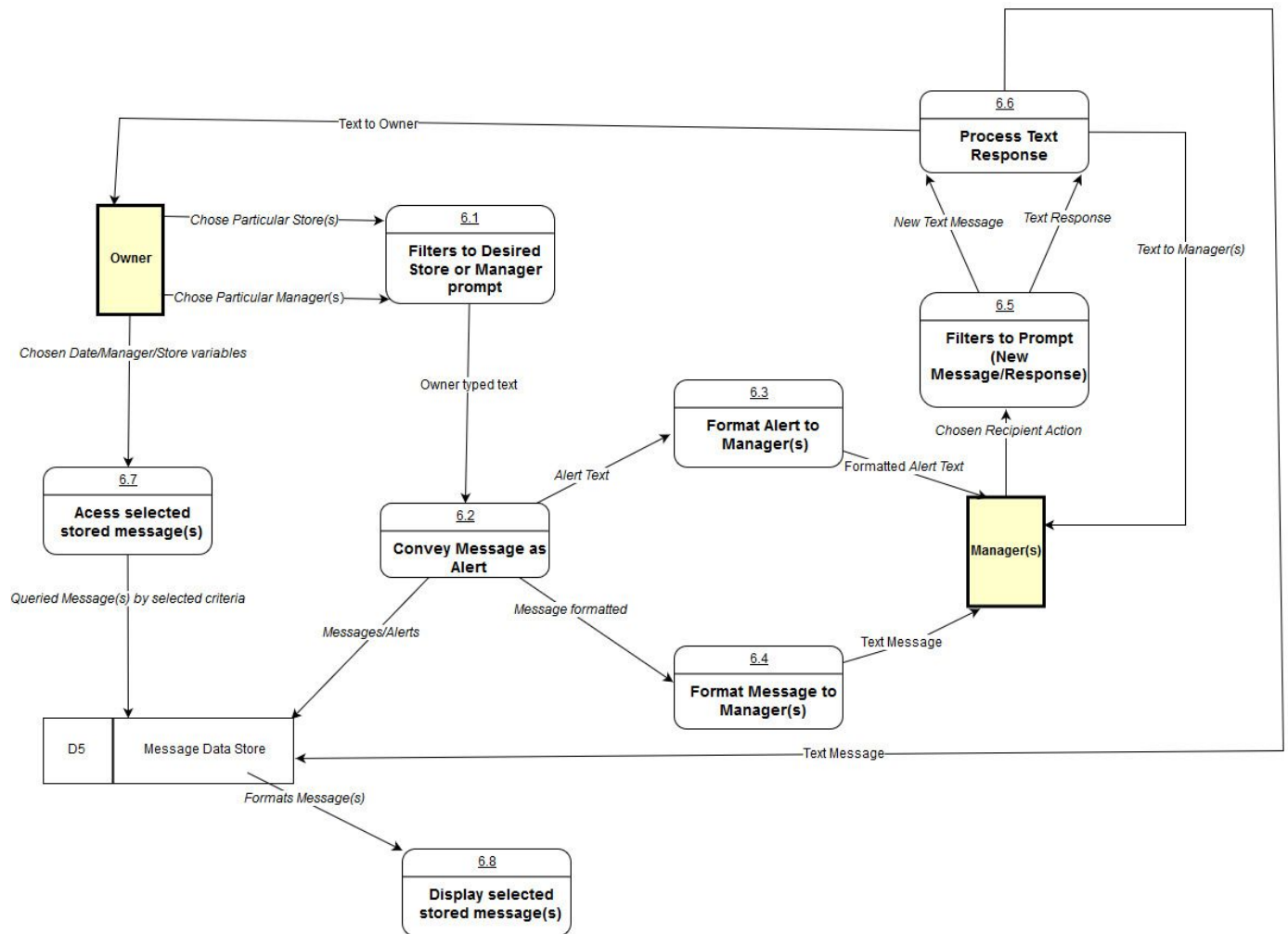


Figure 3.9 Child Diagram 7

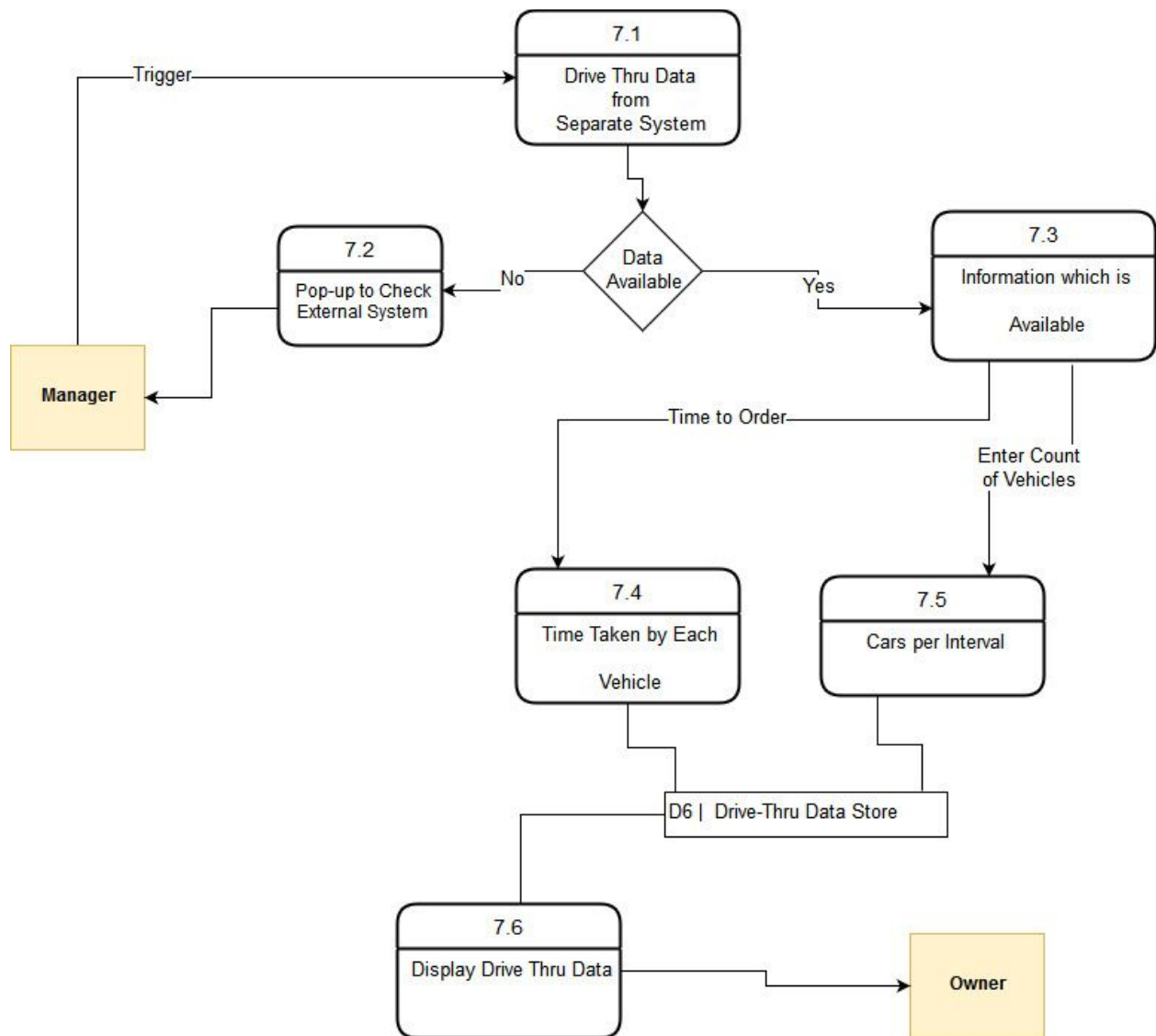


Figure 3.10 Child Diagram 8

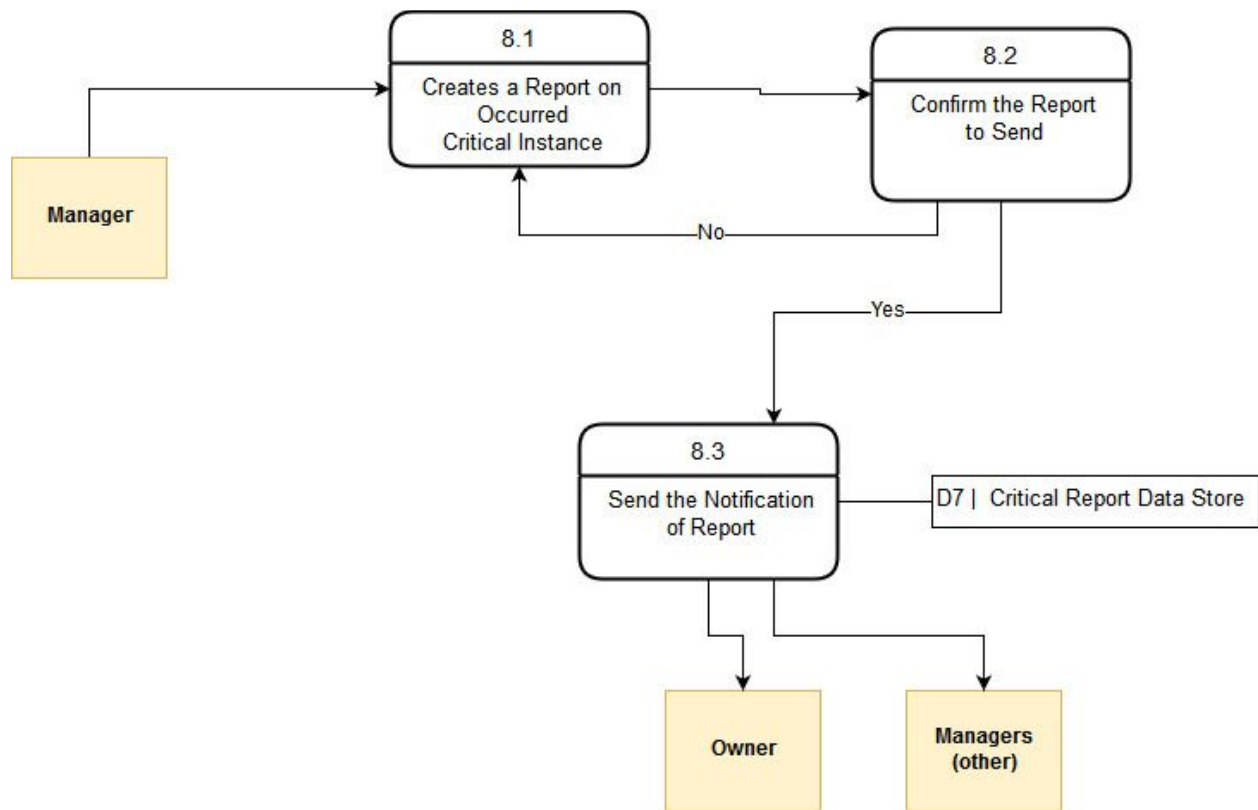
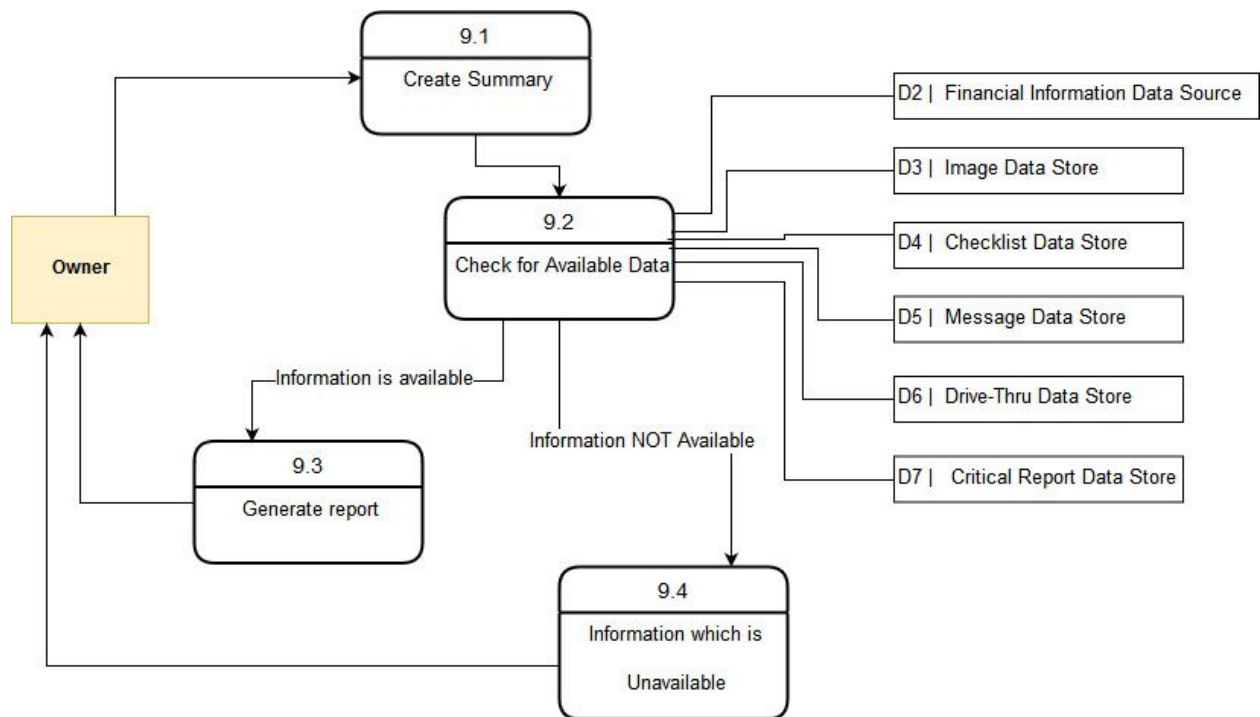


Figure 3.11 Child Diagram 9



Text Definitions

1. Processes

1. Create Account:-
 - ❖ Allows manager/owner to create an account with a username & password
2. Log-In:-
 - ❖ Manager or owner needs to enter credentials to access system
3. Input Financial Information:-
 - ❖ Allows user to add the financial information sales, labor percentage periodic
4. Upload Photos:-
 - ❖ Allows user to upload image of a product or area in a restaurant
5. Create To-Do Checklist:-
 - ❖ Allows user to create/access checklist to complete & manage separate tasks
6. Message Managers:-
 - ❖ Users communicate with other managers using the system in order to complete a certain task
7. Store & Display Drive-Thru Data:-
 - ❖ Allows users to enter times and number of cars per interval that go through the drive-thru
8. Create Critical Reports:-
 - ❖ Allows creation of reports on all the text and critical instances that occur in each restaurant
9. Display Summary Reports:-
 - ❖ Allows owner to view summary report of other users' entered data and completed assigned tasks

2. Entities

1. Manager:-
 - ❖ Managers of the restaurant check Daily Food Excellence Audit, Rush-Readiness Checklist, photo uploads for products, and upload business numbers such as sales, labor, and inventory.
2. Owner: -
 - ❖ The business owner log onto the app and complete their daily tasks in an organized comprised manner. Monitors manager activity

3. Data store

1. D1 login credential datastore:-
 - ❖ Datastore that holds information about Log-In such as username and password.
2. D2 Financial Information Data Store:-
 - ❖ Datastore that stores user's financial information such as sales and labor percentage periodic
3. D3 Image Datastore:-
 - ❖ Datastore that stores images that Users upload from their device to the system.
4. D4 Checklist DataStore:-
 - ❖ Datastore that stores checklists based on Users input for each task that are then put into a to-do list.
5. D5 Message DataStore:-
 - ❖ Datastore that stores messages that are sent to another user
6. D6 Drive-Thru DataStore:-
 - ❖ That stores User inputs data into system that was recorded from the other system that collects drive-thru data
7. D7 Critical Report Data Store:-
 - ❖ Stores Users written report in system that will be sent to desired recipient.

4. Data Flow

1. Account ID:-
 - ❖ Have a username and password that the user needs to enter each time they want to log in
2. Account Creation Form:-
 - ❖ Users create an account with unique username and password to be used to validate credentials every time the user logs in to the system
3. Log-in Credential:-
 - ❖ Users enters the same unique username and password that they previously used to create his or her account
4. Financial Information:-
 - ❖ Information sales and labor percentage periodic are stored
5. Approved Credential:-
 - ❖ Users can access the system's features
6. Valid Credential:-
 - ❖ System checks if the user name and password is validated or not.
7. Image File:-
 - ❖ Users provide a visual representation of a product that needs to be reported to the owner.
8. Checklist
 - ❖

- ❖ System displays a checklist containing separate tasks that the user can mark under “to-do” or “completed”

9. Drive-Thru Data:-

- ❖ Displays drive-thru data separated by time intervals and days.

10. Message Data:-

- ❖ User inputs a message that can be sent to another user

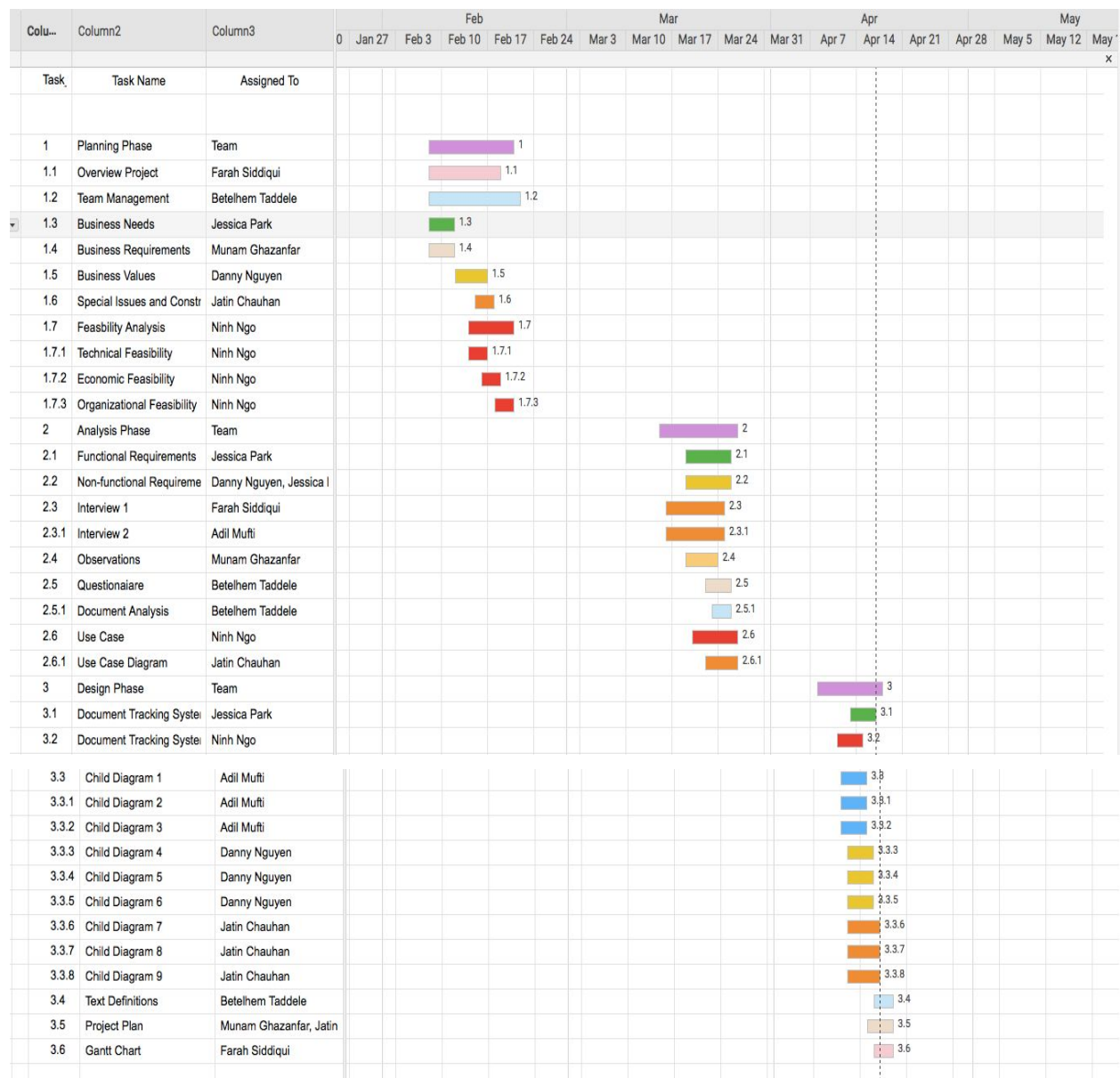
11. Checklist Data:-

- ❖ System displays a checklist containing separate tasks that the user can mark under “to-do” or “completed”

Project Plan

Task_ID	Task Name	Assigned To	Estimated			Actual			Dependency	Status
			Duration (days)	Start Date	Finish Date	Start Date	Finish Date	Duration Variance		
1	Planning Phase	Team	12	Feb 8	Feb 20	Feb 8	Feb 21	1		Closed
1.1	Overview Project	Farah Siddiqui	10	Feb 8	Feb 18	Feb 10	Feb 20	0		Closed
1.2	Team Management	Betelhem Taddele	12	Feb 8	Feb 20	Feb 8	Feb 21	1		Closed
1.3	Business Needs	Jessica Park	3	Feb 8	Feb 11	Feb 8	Feb 11	0		Closed
1.4	Business Requirements	Munam Ghazanfar	4	Feb 8	Feb 11	Feb 8	Feb 11	0		Closed
1.5	Business Values	Danny Nguyen	4	Feb 12	Feb 16	Feb 11	Feb 15	0	1.1, 1.2	Closed
1.6	Special Issues and Constraints	Jatin Chauhan	2	Feb 15	Feb 17	Feb 15	Feb 17	0		1.4 Closed
1.7	Feasibility Analysis	Ninh Ngo	6	Feb 14	Feb 20	Feb 14	Feb 21	1	1.1, 1.2	Closed
1.7.1	Technical Feasibility	Ninh Ngo	2	Feb 14	Feb 16	Feb 14	Feb 16	0		Closed
1.7.2	Economic Feasibility	Ninh Ngo	2	Feb 16	Feb 18	Feb 16	Feb 19	1	1.5.1	Closed
1.7.3	Organizational Feasibility	Ninh Ngo	2	Feb 18	Feb 20	Feb 19	Feb 21	0		Closed
2	Analysis Phase	Team	11	March 15	March 26	March 15	March 27	1		Closed
2.1	Functional Requirements	Jessica Park	6	March 19	March 25	March 21	March 26	1		Closed
2.2	Non-functional Requirements	Danny Nguyen, Jessica Park	6	March 19	March 25	March 22	March 26	2		Closed
2.3	Interview 1	Farah Siddiqui	8	March 16	March 24	March 18	March 26	0		Closed
2.3.1	Interview 2	Adil Mufti	8	March 16	March 24	March 18	March 26	0		Closed
2.4	Observations	Munam Ghazanfar	4	March 19	March 23	March 20	March 23	1		Closed
2.5	Questionnaire	Betelhem Taddele	3	March 22	March 25	March 26	March 27	2		Closed
2.5.1	Document Analysis	Betelhem Taddele	2	March 23	March 25	March 26	March 27	1	2.5	Closed
2.6	Use Case	Ninh Ngo	6	March 20	March 26	March 20	March 26	0		Closed
2.6.1	Use Case Diagram	Jatin Chauhan	4	March 22	March 26	March 23	March 27	0	2.6	Closed
3	Design Phase	Team	10	April 8	April 17	April 11	April 18	3		Closed
3.1	Document Tracking System Context Diagram	Jessica Park	3	April 13	April 16	April 15	April 16	2	3.2	Closed
3.2	Document Tracking System Level 0 DFD	Ninh Ngo	3	April 11	April 14	April 12	April 15	0		Closed
3.3	Child Diagram 1	Adil Mufti	3	April 11	April 14	April 16	April 18	1	3.2	Closed
3.3.1	Child Diagram 2	Adil Mufti	3	April 11	April 14	April 17	April 18	2	3.2	Closed
3.3.2	Child Diagram 3	Adil Mufti	3	April 11	April 14	April 17	April 18	2	3.2	Closed
3.3.3	Child Diagram 4	Danny Nguyen	3	April 12	April 15	April 17	April 18	2	3.2	Closed
3.3.4	Child diagram 5	Danny Nguyen	3	April 12	April 15	April 17	April 18	2	3.2	Closed
3.3.5	Child Diagram 6	Danny Nguyen	3	April 12	April 15	April 17	April 18	2	3.2	Closed
3.3.6	Child Diagram 7	Jatin Chauhan	4	April 12	April 16	April 14	April 18	0	3.2	Closed
3.3.7	Child Diagram 8	Jatin Chauhan	4	April 12	April 16	April 14	April 18	0	3.2	Closed
3.3.8	Child Diagram 9	Jatin Chauhan	4	April 12	April 16	April 14	April 18	0	3.2	Closed
3.4	Text Definitions	Betelhem Taddele	2	April 16	April 18	April 16	April 18	0	3.1, 3.2	Closed
3.5	Project Plan	Munam Ghazanfar, Jatin Chauhan	3	April 15	April 18	April 15	April 18	0		Open
3.6	Gantt Chart	Farah Siddiqui	2	April 16	April 18	April 17	April 18	1	3.5	Closed

Gantt Chart



Danny Betelhem Team Jatin Farah Jessica Ninh Munam Adil

The following Colors represent which person completed which task in the Gantt Chart.