Criteria 3 - Collecting data about the need or opportunity

Instructions
Students are required to document data for analysis using appropriate data collection methods. The data collected will contribute to the use of analytical tools and techniques in Criterion 3 and the development of a software requirements specification in Criterion 4. The process of data collection may involve students communicating back-and-forth with their clients. Students will document evidence of their critical and creative thinking through the identification, clarification and critical analysis of the data collected as part of the Analysis Stage in Criterion 3. **Evidence** A table that describes the data collected, the method used and justifies the choice of method for that data. Evidence of your understanding of the relationship between data, users and digital systems through the use of the four graphical representations.

3.1 Data Collected and Justification

Instructions
You need to collect more data about the need or opportunity you identified in your *project proposal*. Describe the data collected, the method used to collect it (survey, interview, report, observation etc.) and justify its use. The justification should include the pros and cons of the selected method and critical analysis of data's lineage. A copy of all data collection tool(s) and record of data collected should be included as part of the Appendix.

| Data Needed	Data Source(s)	Collection Method	Reflection on the process
Scope, restrictions, functional and non-functional constraints.	Client	Interview	To have a detailed idea of what the client is requesting for and collect data on the areas information is needed
Layout, draft ideas, possible option to add	Vermont SC Main enterence login system.	Observation	To observe and get a better understanding of the organisation and note certain details that are inportant to the solution
Number and basic data(number of staff)	Client	Survey	To get small bits of info to get the basic data

3.2 Graphical representations of the relationship between data, users and digital systems

3.2.1 Context Diagram
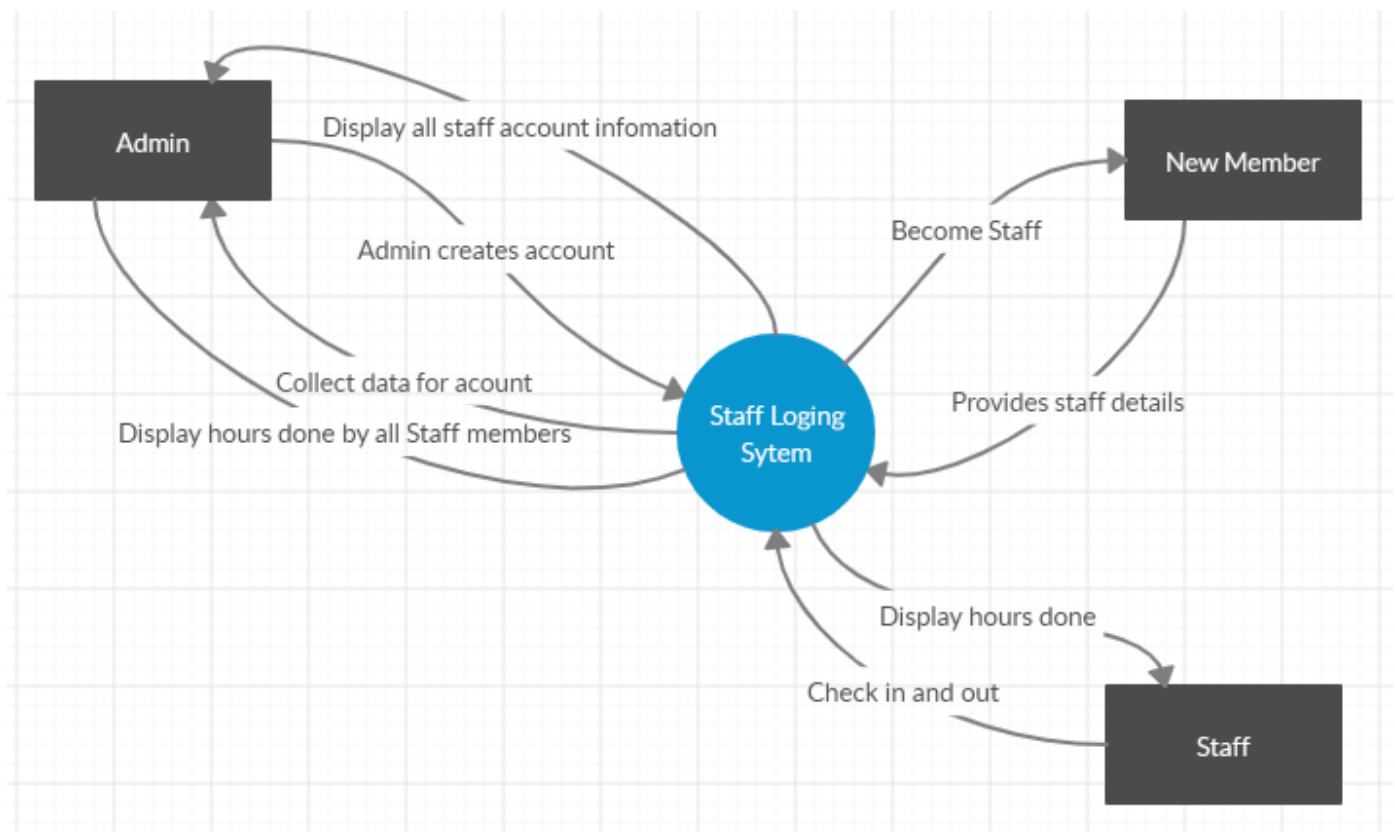
The context diagram focuses on the interaction of multiple entitys and the system in the middle. The main focus point being the system is the Childcare center, and entitys being the part-time staff, full-time staff and admin. When a staff member first creates an acount a admin will have to create it for them inputing all nessesary data like first, last name and if they are full or part time staff into the system. The Satff members will then be able to log in twice a day to check in and out of work. Anytime during the week the admin and staff will be able to view the amount of hours done.

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3.2.2 Data Flow Diagram
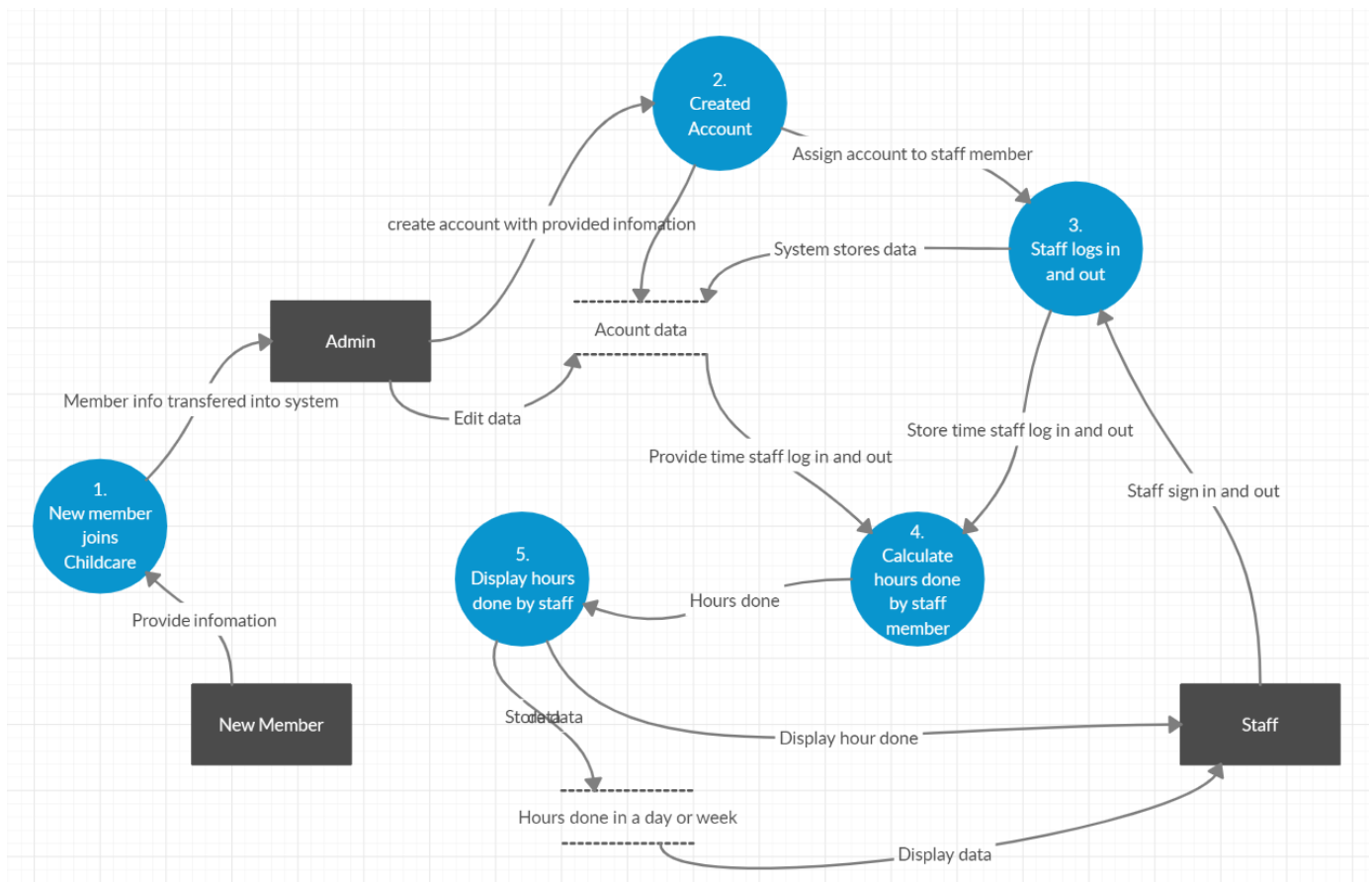
The data flow diagram will track the data that goes in and out of the system and the prosses it must take. When a staff member joins the childcare center the infomation of staff member is taken into the system then back out as data by the admin to create an acount for the staff member. This acount can then be used to track hours done by staff members. When a staff member comes in for the day they log into the sytem indicating they have arived for the day and agin later when they have left for the day. The hours will then be recorded based on the amount done for tha day. An admin or staff member will then be able to access there acount to see hours done, admins will also be able to see all other staff member hours.

Zach Smith

3.2.3 Use Cases

No.	Use Case	Notes
UC1	Create account	Account is created by admin
UC2	Assign account	Account is assigned to the New member by a admin
US3	Log in and out	Staff log in and out of work
US4	Edit account	Admin can edit accounts to make any necessary changes
US5	Calculate hours done	System calculates hours done by staff
US6	Provide account infomation	New member provides information for account
US7	Receive hours done	The infomation displayed after the computer has done the calculations
US8	Receive account	New member receives account becoming a staff member

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3.2.4 Use case Diagram using UML

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