



**Information Gathering &
analysis of existing Social
Sites for psychologically
challenged people**



Existing system :

- Provides residential supports.
- Groups mentally challenged people and form a community consisting their family members, friends.
- Forms a social network by assigning some common meeting places like church, playground.



Our Goal :

- Getting familiar with existing system through available documentation.
- What kind of information to be collected.
- From where to be collected.
- How the information to be collected.

What kind of Information to gather :

- Organization related:
 1. Community based residential support.
 2. National Health Services residential campus.
 3. Non Govt. organizations basically earns through services and personal assistant's supports.
 4. There are several structures like community based, charitable organizations, non profit, profit etc.



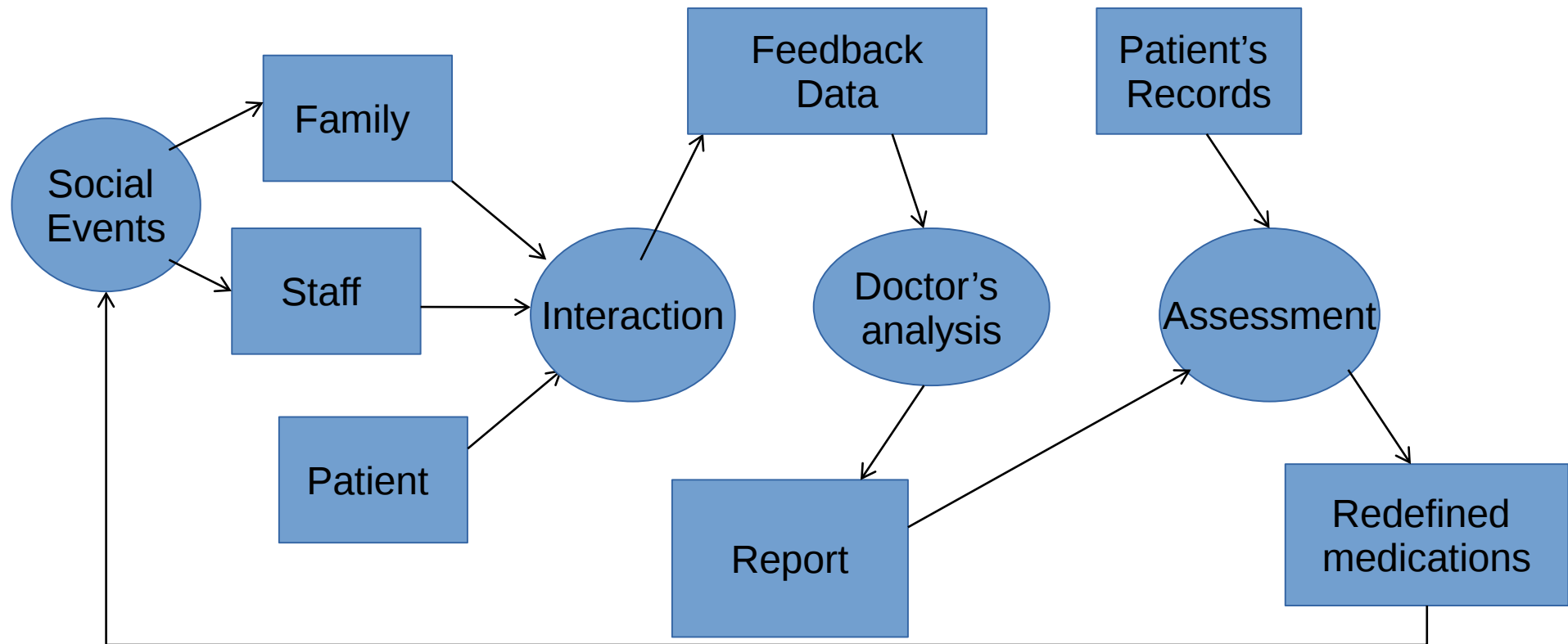
What kind of Information to gather :

- User staff related:

1. Generally day to day operation is run by personal assistants who provide mental, physical supports.
2. Since mentally challenged people are generally isolated, it takes a lot of effort from the staffs to gain their trusts.
3. So information regarding their way of interacting with the patients is important for the analyst.

What kind of Information to gather :

- Work flow related:





From where to collect :

- External sources :

1. Research papers. We have found some research papers where patient's behavior was studied closely on different types of methods based on this system.
2. National Health services documents.
3. Non profit organizations documents.

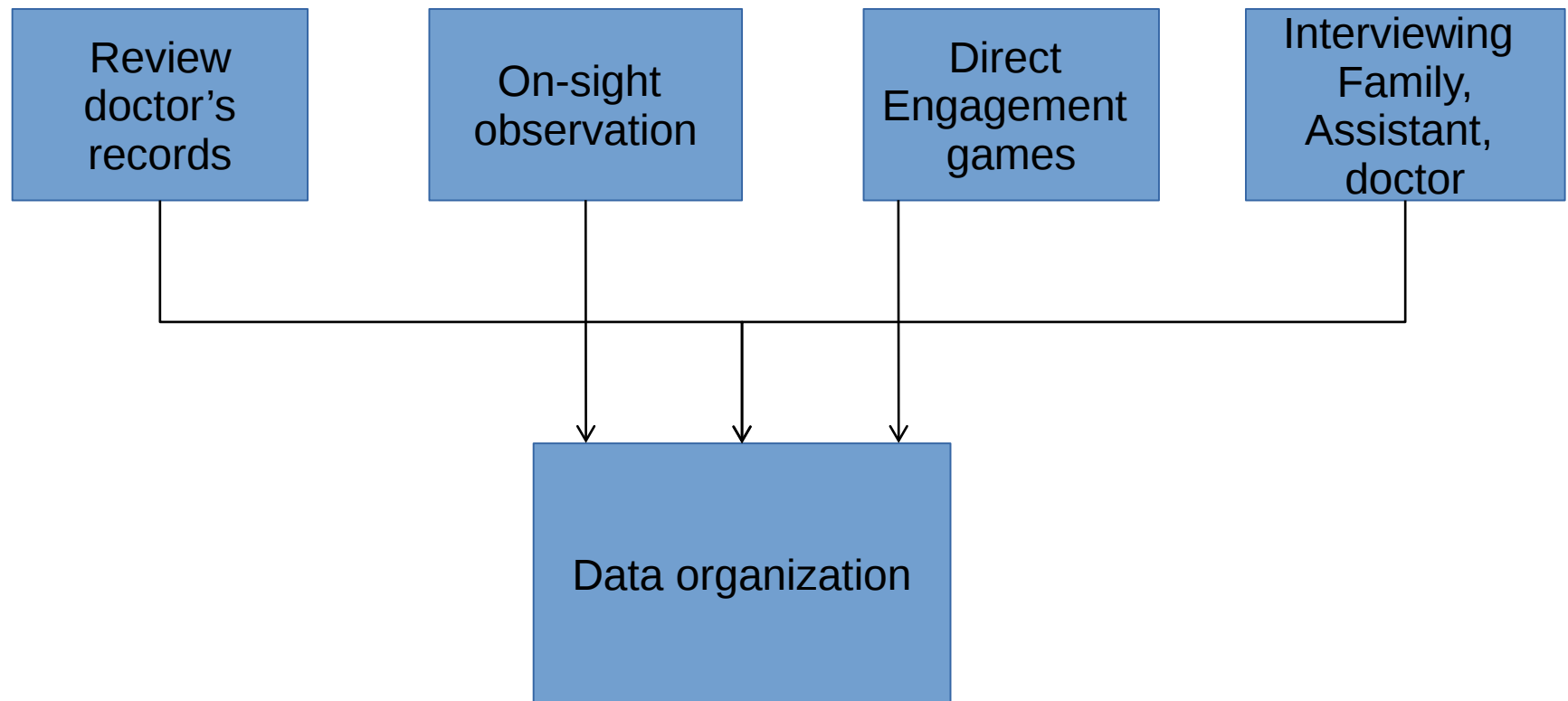


From where to collect :

- Internal sources :
 1. Family member's personal assessments.
 2. Personal assistant's interview.
 3. Direct interaction with the patient.
 4. Doctor's interview and medication methods.

How to collect :

- Tools needed :





From where to collect :

- Internal sources :
 1. Family member's personal assessments.
 2. Personal assistant's interview.
 3. Direct interaction with the patient.
 4. Doctor's interview and medication methods.



Feasibility Study



Team & Team Leader :

- Group : 4.
- Team Leader :

Shahriar Azad 201714037

- The main idea of our project came from him.
- Has extensive knowledge on web development, system architecture.
- Has web development experience.

Existing System:

Existing Systems	Description
Psychological Treatment	People seek medical treatment from doctors, counseling with psychiatrists, group therapies and discussion circles. But these are real life interaction based and are costly.
Social site campaigns	People share their stories on social media sites such as facebook, instagram. Discussion groups also exist on these social sites.
Blogs	There are many blogs regarding mental health and awareness. These are information based and one-way communication available.
Helpline	There are few social media pages from organizations where people can seek help from trained/skilled personnels. Telephone based helplines from government and non-profit organizations also exist.

3. Potential Candidate Systems:

Candidate Systems	Features	Hardware	Software
A web based social site for people with mental issues	I. individual profiles for each user ii. Audio and video based communication iii. Groups and discussion forums iv. Blogs and necessary information to seek medical help from professionals.	Computer, Smartphone devices	Web browser, easy to use UI, OS
A mobile app based social site	I. Group chat options with audio and video calling ii. Notifications and location sharing option iii. Groups and discussion forums iv. Blogs and articles	Smartphone devices	Android/iOS

4. Characteristics of the Candidate System

Characteristics	A web based social site	A mobile app
User Interface	Easy to use required	User friendliness required
Source Language	Python	Java
Source Code	Not Available	Not Available
Audio and Video based communication	Included	Included
Location sharing	Not included	Included
Navigation	Easy to surf through	Easy to surf through
Optimized search option	Required	Required
Helpline	Not included	Included
Monetization	Not required	Not required

5. Candidate Qualitative Evaluation Matrix:

Evaluation Criteria	A Web Based Social Site	A Mobile App
Performance :		
Page Loading Speed	Excellent	Excellent
System Accuracy	Very Good	Very Good
Response Time	Excellent	Excellent
User-friendly	Excellent	Excellent
Memory required	Large	Small
Costs:		
System Development	Good	Very Good
Server Storage	Less	More
User training	Fair	Fair
Time	Good	Very Good

Candidate Quantitative Evaluation Matrix:

Evaluation Criteria	A Web Based Social Site	A Mobile App
Performance :		
Page Loading Speed	Less than 1s	Less than 5s
System Accuracy	99%	99%
Response Time	Less than 1s	Less than 1s
User-friendly	Yes, Menu Driven, Interactive	Yes, Menu Driven, interactive
Memory required	1 GB	1GB
Costs:		
System Development	40,000 Tk	30,000 Tk
Server Storage	100 GB	80 GB
User training	2-3 days	1-2 days
Time	3 months	2 months

Weighted Candidate Evaluation Matrix:

Evaluation Criteria	Weighting Factor	A Web based		A Mobile App	
		Rating	Score	Rating	Score
Performance :					
Page Loading Speed	5	4	20	5	25
System Accuracy	2	5	10	5	10
Response Time	4	4	16	5	20
User-friendly	5	3	15	4	20
Memory required	3	2	6	4	12
Costs:					
System Development	5	5	25	5	25
Server Storage	2	2	4	3	6
User training	3	1	3	4	12
Time	3	4	12	2	6



Selection of Best Candidate System:

Best Candidate System:

A mobile app based social site for psychologically challenged people.

Reasons:

- Can be easier to use, more available since smartphone users are more in number.
- Takes less time to develop.
- Many features can not be implemented in the web based version.