# Anganwadi

Design process and methodology

1

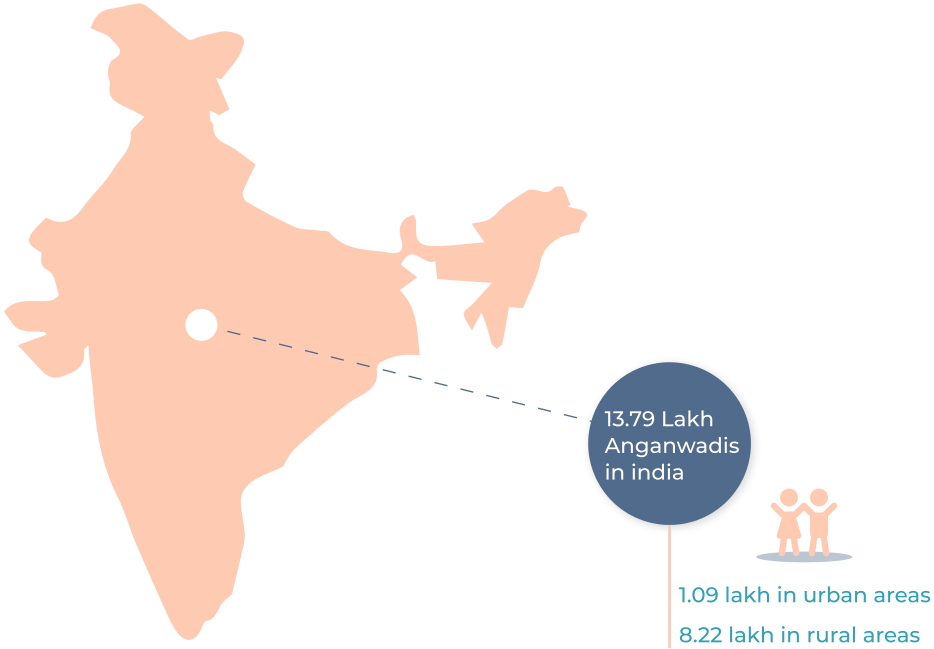
# Research phase

Desk Research
Field visit
Interviews
Collecting pictures

# What is Anganwadi?

Anganwadi Centre is one of the important institutions to ensure nutrition and pre-school education of the children of age group 3-6 years.

There are as many as 13.79 lakh anganwadis operational across the country. Of those anganwadis that can be monitored online, 1.09 lakh centres are in urban areas and the remaining 8.22 lakh were in rural areas of the country, according to the RTI.



# What happens in Anganwadi?

**Children**

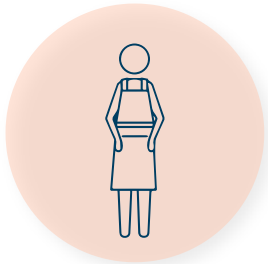
- Kids are taken care when parents are off to work
- They are provided with basic primary education.
- They are provided with mid day meals.
- Food is cooked in the centre itself.
- Kids vaccination is done and recorded.

**Pregnant women**

- Pregnant women can visit for regular check ups.
- They are provided with nutrition charts.
- They are explained with different govt. schemes.

# Who are present in Anganwadi?

Anganwadi Teacher



Anganwadi Helper

Children

Pregnant Lady

Volunteer

Temporary Members

# Task done by people present in Anganwadi

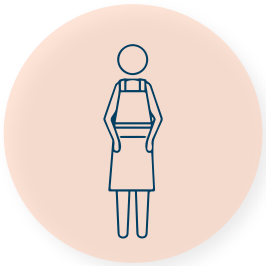
*Spent 2 days in Anganwadi togather information by discussion and observation*

## Teacher

- Provide basic and primary education.
- Registering new enrollment of kids.
- Write lesson plans and record kids progress.
- Guide pregnant ladies and enrolling them to schemes.
- Look after kids mid meals menu and nutrition.
- Record kids vaccination and record health.
- Look after the area and development.
- Send records to higher authorities.

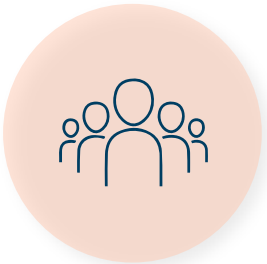
## Pregnant lady

- Enroll to different suitable schemes.
- Visit Anganwadi for regular checkups



## Helper

- Take care of area and cleaning and maintenance.
- Help the teacher in looking after kids when she is busy with other work
- Cook mid day meals and feed kids.



## Volunteer

- Look after infrastructure issues.
- Mostly NGOs.
- Donate books/ toys for kids.
- Help for 1 -2 days a week

## Children

- Kids learn and play.
- Socialise and make friends.
- Education - basic language, math and art
- Have nap time.
- Play and run around.

# Interview and field research

*Visited 3 Anganwadi centres and gathered the information.*

### Discussion with Anganwadi teachers

- Center opens at 9. She usually reaches before.
- Kids attendance is taken and prayer is done.
- She teaches/ plays with the kids according to lesson plan created by her.
- Feels that space given is too less, can't avoid taking new enrollment of children.
- Food area, classroom, play area is same now, but new rules say that separate dining should be provided.
- When new family shifts to a given area, teacher makes sure that they are aware of the centre.
- Kids most of the time spread out and study.
- She talks to the helper and makes sure the cooking happens on time.
- Menu comes from higher authority every month. Its a weekly menu given.
- Every Tuesday - Doc is present for kids and pregnant ladies. The allotted day for doctor visit is different in all centres.
- When a new child wants to enroll, she fills the form with family details and ID proof.
- Post lunch she gives kids a break time / nap time, where she records todays activities in a register.
- In total, she maintains 6 registers - (every 6months - records go to higher authority)
  1. Children's attendance
  2. Lesson plan and activities.
  3. Kids progress report.
  4. Kids health and nutrition.
  5. Kids enrollment
  5. Pregnant lady enrolment.
  6. Pregnant lady health records and registration for schemes.
- Books and curriculum is sent by govt. authorities. Kids are supposed to fill the worksheet attached with it.
- Each Anganwadi has audits on regular basis where the records are checked. Area is assessed.

### Discussion with Helpers

- Arrives early in centre and cleans the area.
- Looks at the food ingredient and plans the cooking.
- Helps the teacher and takes care of kids when teacher is busy.
- Entertains and involves in kids activity.

## Discussion with parents

- It’s convenient for them, they know their kids are in safe hands.
- Parents - Construction labours, maids, daily wage workers.
- Just submit Aadhar card, photographs and enrolled kids.
- Happy that food is taken care of.
- This ensures that their kids are getting proper nutrition.
- Kids basic education is taken care of.
- Happy that festivals and events are celebrated. Kids participate and socialise.

## Pictures and area analysis.

Visited Anganwadi on children’s day to spend sometime with kids and be part of the celebration

Anganwadi had total strength of 15kids. The classroom has drawing on the wall made by them. It also had posters for pregnant ladies regarding different schemes.

The wall has posters of different govt. schemes and details for pregnant ladies. They have weekly doctors timetable Kids menu timetable.

# Picture gallery

2

# User need Identification.

User needs
Need hierarchy
Empathy map
Persona

# Keywords from interviews.

| Teacher | | Helper | Parents | Area |
|---|---|---|---|---|
| Hectic schedule. | Looks after activities and food. | Cleaning | Depend on meals | Area provided is small |
| Education & nutrition | Reports to higher authority with records | Cooking and planning | Kids are taken care off. | Food/ study/ play in Same area |
| Maintains records. | Plans the day for kids | Taking care of kids | Happy about basic education | Old infrastructure. |
| Daily basis records. | Handles kids and pregnant ladies. | Handles kids and pregnant ladies. | Hassle free enrollment of kids | Cooking area is small. Utility is given in class. |
| Schedules doc appointment. | Spends lots of time in maintaining records on daily basis. | | | |

# Empathy map - Teacher

## Says

Today I need to teach this topic.

I need to schedule doc appointment.

I need to understand the new scheme.

Today is a festival, need to organise a event.

Talk to doc. Regarding next vaccination.

Need to arrange awareness camp for pregnant ladies.

Today's menu has xyz calories and nutrition.

## Thinks

Why do I need to maintain 6 record books?

Writing each day activity Is hectic.

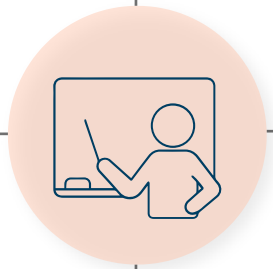
I can give kids an activity and focus on records.

I need to highlight the area issue in next meeting

New family is shifted to this area. I hope they are aware of this center.

I can give teach kids basics of language today or poems.

I hope the kids are filling out the worksheets.



## Does

Record data on daily basis.

Talks to doctors and handles the check up sessions.

Enroll kids and pregnant lady.

Maintains the progress of kids.

Makes sure pregnant ladies are comfortable.

Teaches kids and takes care of them.

## Feel

I hope the kids are learning.

I wish the area was more organised.

What do I teach kids today?

When do I do my today's records?

Todays food and nutrition should be calculated

Today is the check up day. I need to plan the day properly.

# Empathy map - Helper

**Says**

I need to clean the area and wash utensils.

I can help the teacher when she's busy.

I need to plan out grocery and food for today.

**Thinks**

Let me inform the teacher about requirement of new cleaning equipments.

Teacher is busy with doctor and check up. Let me take care of kids.

I hope I have maintained the nutrition content.

I hope the food tastes good.

**Does**

Cooks  food for kids.

Takes care of kids.

Helps the teacher.

Cleans the area and maintains it.

**Feel**

I hope my food tastes good.

I need more cooking utensils.

I hope I'm helpful to teacher and reduce her burden.

I need to prepare for festival event happening in class.

# Understanding user needs.

### Problem areas - In scope

- Reports to higher authority with records
- Spreading awareness About schemes.
- Maintains 6 records.
- Enrolling kids & pregnant ladies
- Schedules doc appointment.
- Record nutrition and progress reports.
- Plans the day for kids

### Problem area - Out of scope

- Area provided is small
- Cooking area is small. Utility is given in class.
- Better cleaning Equipments.

# Hierarchy of needs

A system that helps in recording all the data.

A system that guides the pregnant ladies with details, nutrition & check ups.

Space management and utilisation

Better infrastructure

Better cleaning equipments.

3

# Problem Statement

Highlighting problem statement.

# Problem statement.

To develop a system that helps Anganwadi teachers to maintain records of students and pregnant ladies hassle-free. Currently, he/she maintains 6 different books on a daily basis. It becomes difficult to store the record books and send them for auditing purposes.
It becomes difficult in locating a particular data of a student / Woman at a given point of time. Few of the records are misplaced or lost during storage/auditing purposes as they are sent to a different place.

# 4

# Solution Development

Understanding the problem statement
Brainstorming possible solutions
Understanding user expectations - personas
Finalising a concept

# Understanding problem statement.

Usually Anganwadi centres has max. 30 kids enrolled. It becomes difficult to record the details of all the kids manually. On an average, 5 -6 pregnant ladies approach these centres for their health and schemes.
The teacher notes down their details and suggests them the appropriate schemes. She also organises, events that benefits them.

Thus, on a day to day basis her majority of the time goes away in writing and maintaining books.

What does the record book contain?
- Child enrollment process and parents details.
- Child's attendance
- Childs academic progress and lesson plans
- Child's health and nutrition.
- Pregnant lady enrollment.
- Pregnant lady health - nutrition and check ups
- Schemes that women enrolled in.

*https://web.iitd.ac.in/~reetika/ICDS/ICDS.HTML*

# User persona - Anganwadi teacher

## Bio & details

Name - Ruchitha
City - Bangalore
Age - 30yr
Gender - Female
Education - Graduate

## Goals

I want to extend my help and do my part in education small children.
I want to make sure kids get quality education and food.
I want to make sure that I arrange regular check ups with doctor for kids and pregnant ladies.
Pregnant ladies many times are unaware of all the govt. schemes and how to register. I want to guide them and help them throughout the process.

## Pain points

- A lot of manual labour.
- Following up on parents and women.
- Maintaining and writing record books.
- Trying to utilise maximum space.
- Hectic schedule everyday.
- Records and pages get lost sometimes.
- Hectic days before auditing.
- Sending bulky books for auditing.
- Kids sometimes need more attention, but, I don't have time.

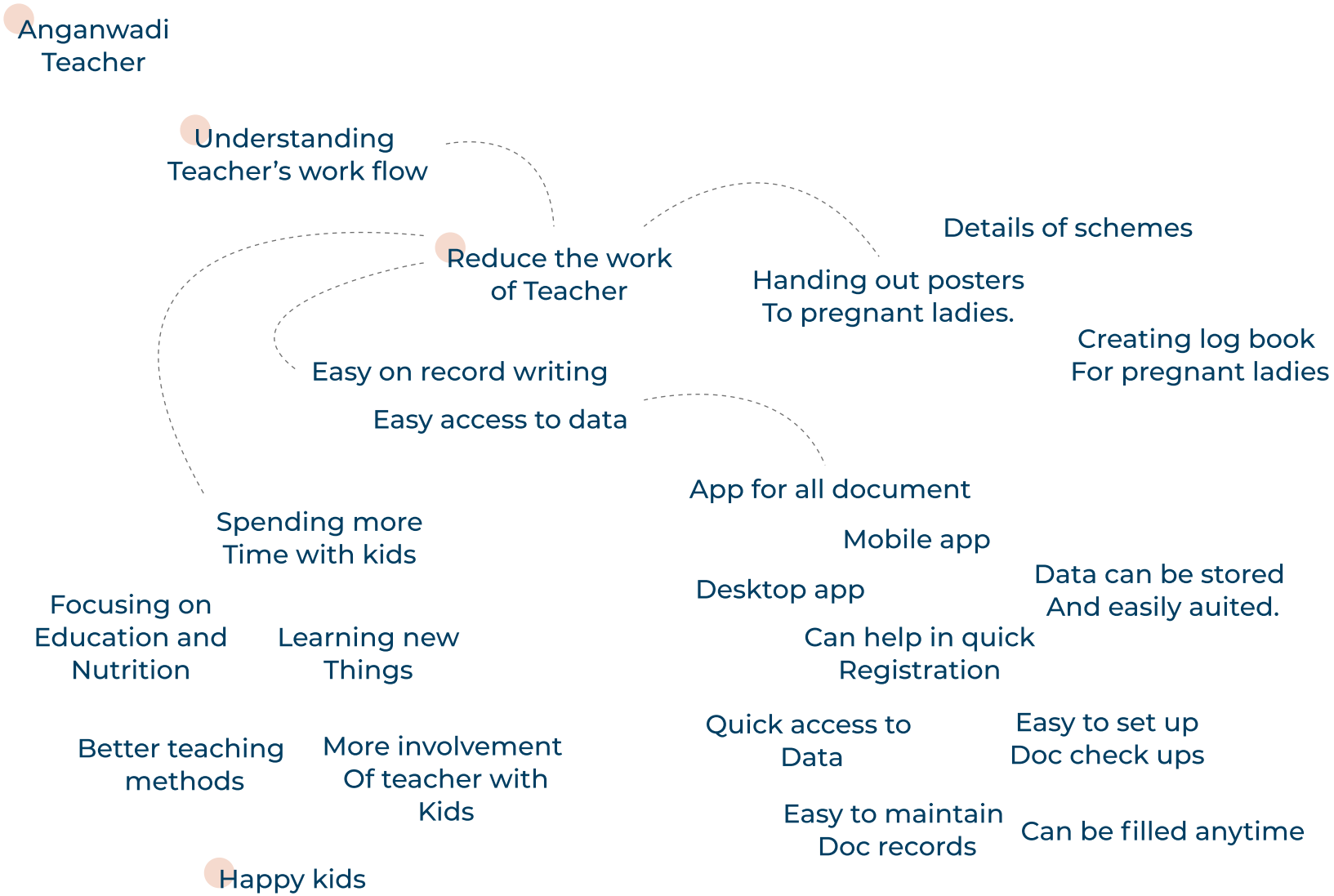
## Frustrations

Most of my time goes away in writing records. It becomes hectic and I cannot give all of my time in children education.
Many a times the books get lost, or consume a lot of space.
The area provided to us is also very little, space management is also a big task. Cooking, studying, etc.. all happens In the same place.
The area gets very crowded on check up Days. Those days are really hectic.

## Happy moments

- Satisfaction is teaching kids.
- Taking care of kids and feeding them.
- Arranging events and celebrating with kids and staff member.
- Guiding pregnant ladies and helping them.

# Brainstorming



# Possible problem solution

To create a system / platform which can ease the process of recording of documents and quick access to data at any point of time.
To create a mobile application which is used by the anganwadi teachers on the day to day basis.
This will help them to quickly analyse information on kids progress and nutrition on regular basis.
Pregnant lady data and regular check ups can also be monitored and recorded.

5

# System Design

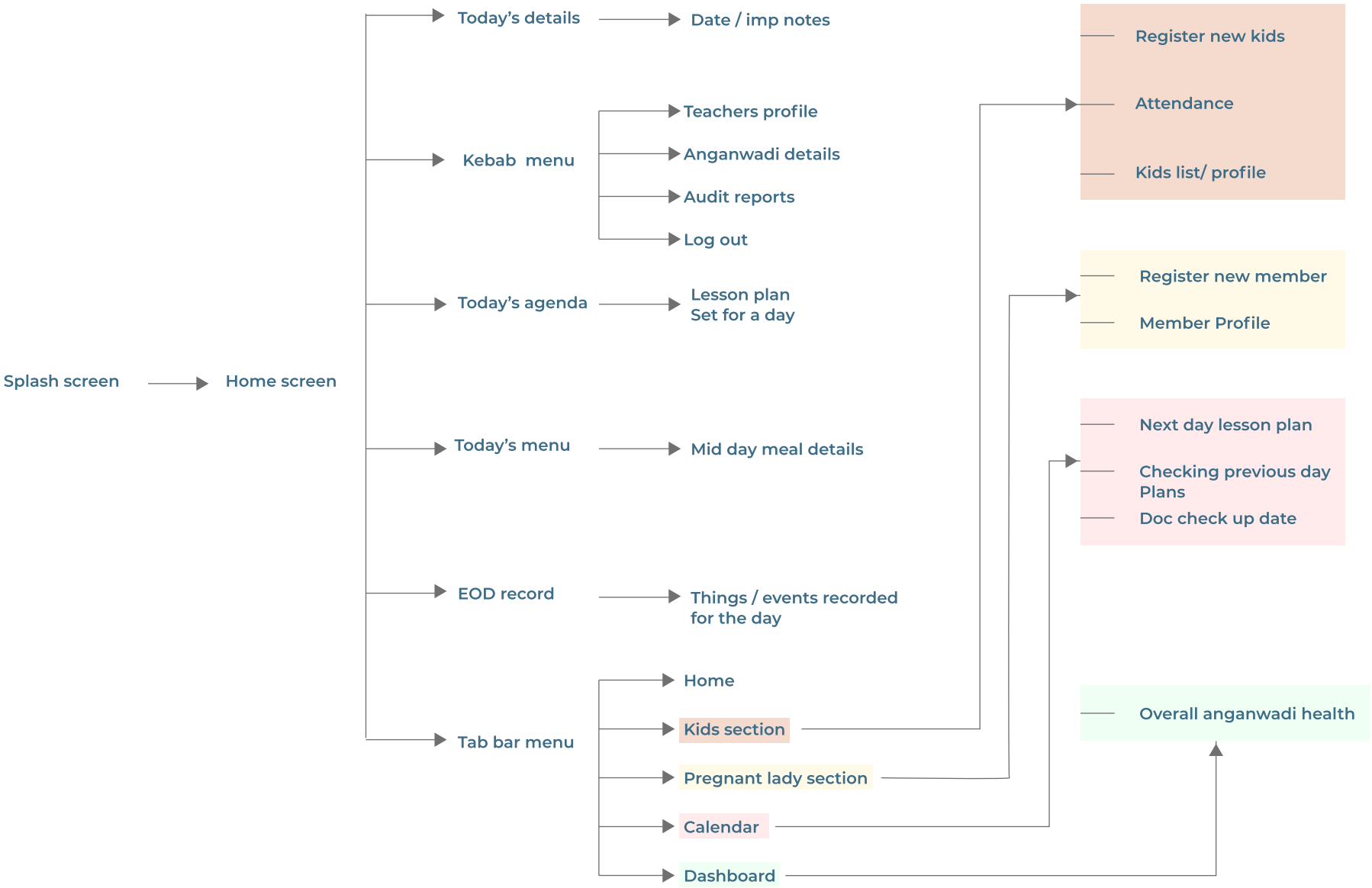
App requirements
Information architecture
User journey maps

# App requirements

**User - Anganwadi teacher**

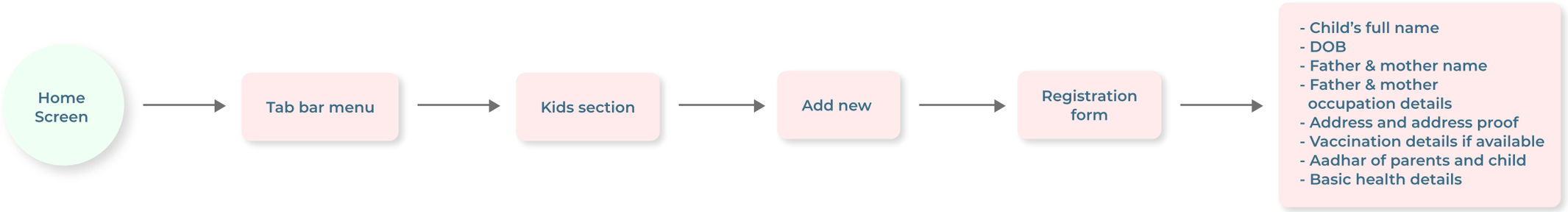
| | One time use | Daily requirements | Time interval requirements |
|---|---|---|---|
| Kids related | - Kids registration<br>- Parents details | - Record of daily activity<br>- Record of daily nutrition<br>- Attendance record. | - Educative progress.<br>- Health check up records. |
| Pregnant lady related | - Registrations to Anganwadi.<br>- Registration to different Govt. schemes. | Nil | - Health check up |
| Anganwadi related | - Anganwadi details | - Mid day meals records.<br>- Daily lesson plans. | Nil |

# Information architecture



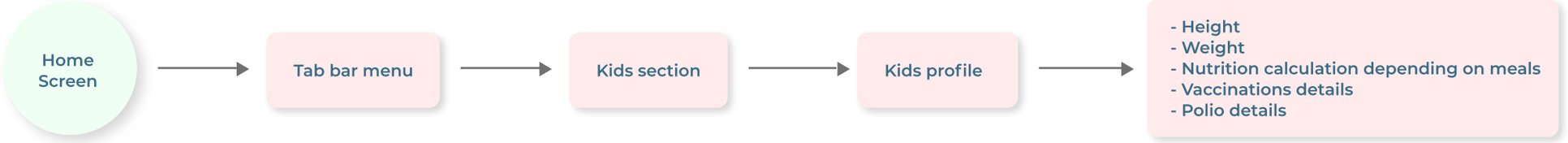
# User flows - Children related

## Kids registration

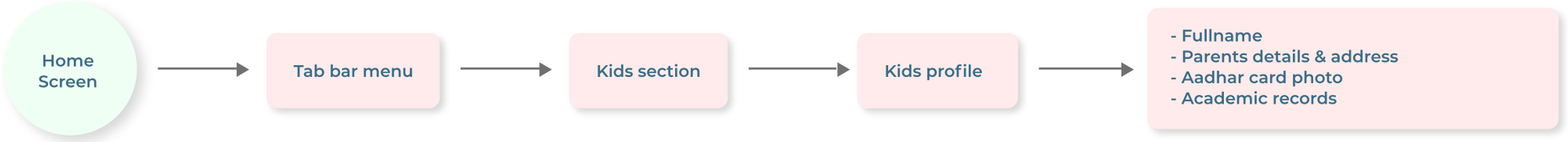



## Kids attendance

## Kids health profile

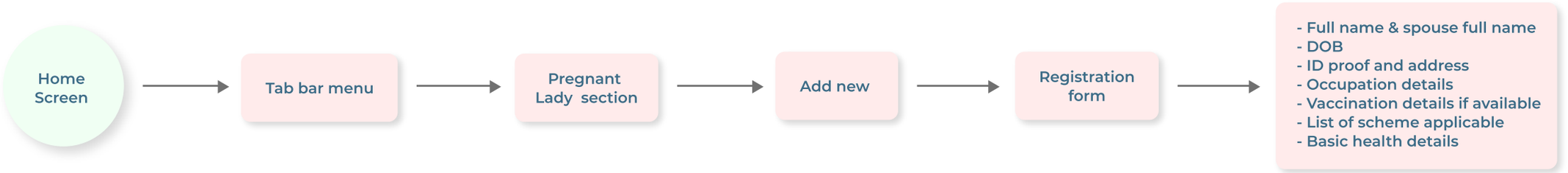



## Kids health profile

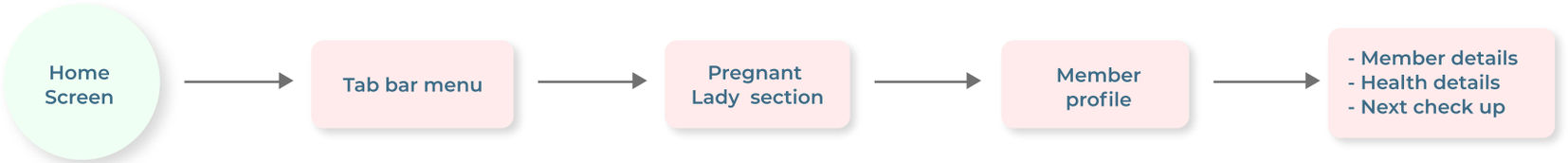


# User flows - Pregnant lady related

## Member registration

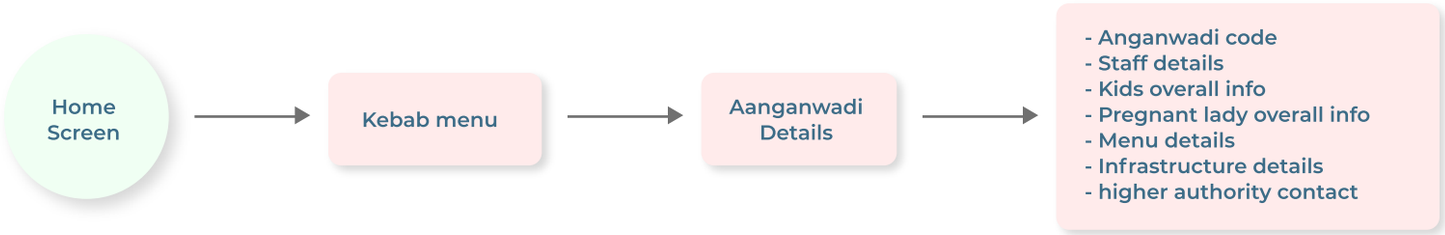



## Member profile



# User flows - Aanganwadi related

## Anganwadi details

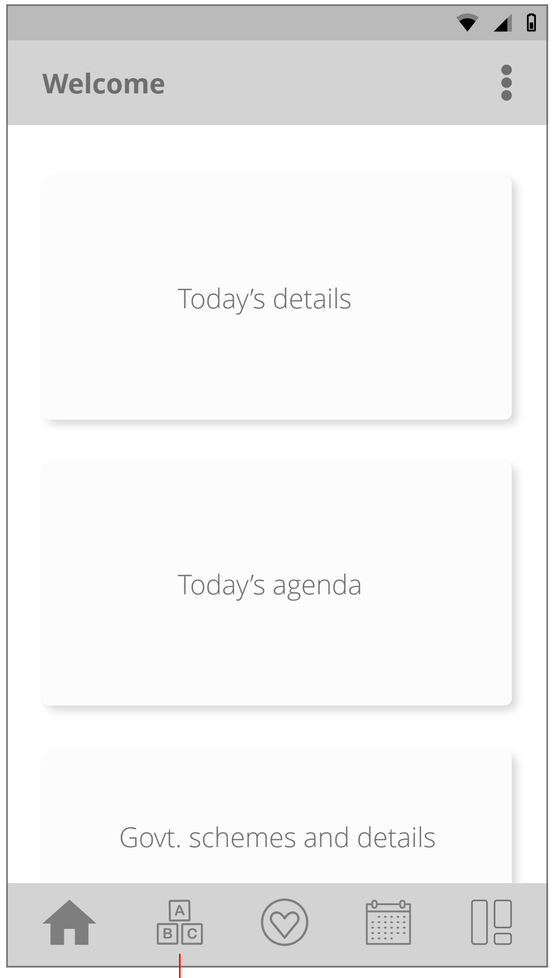


6

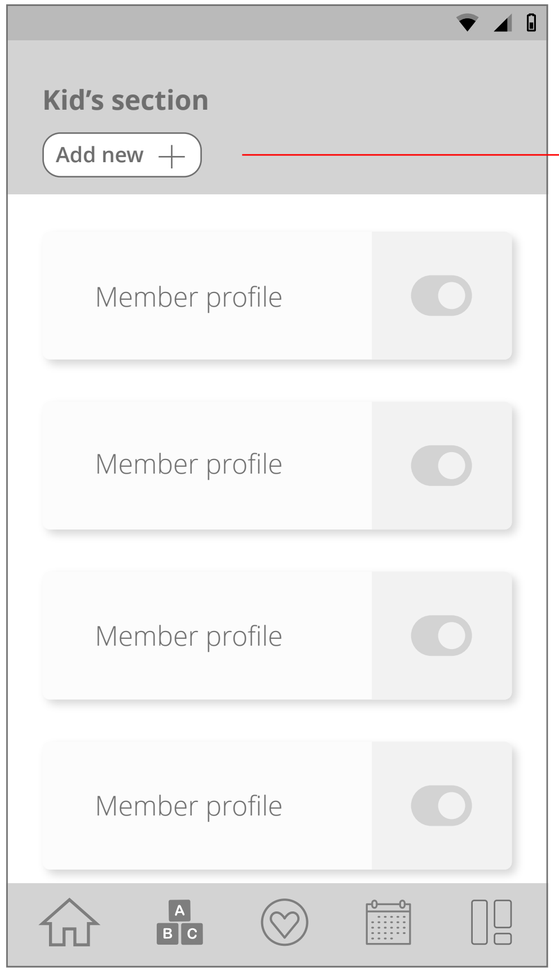
# Visual design
# Code

Wireframes
Style guide
UX design

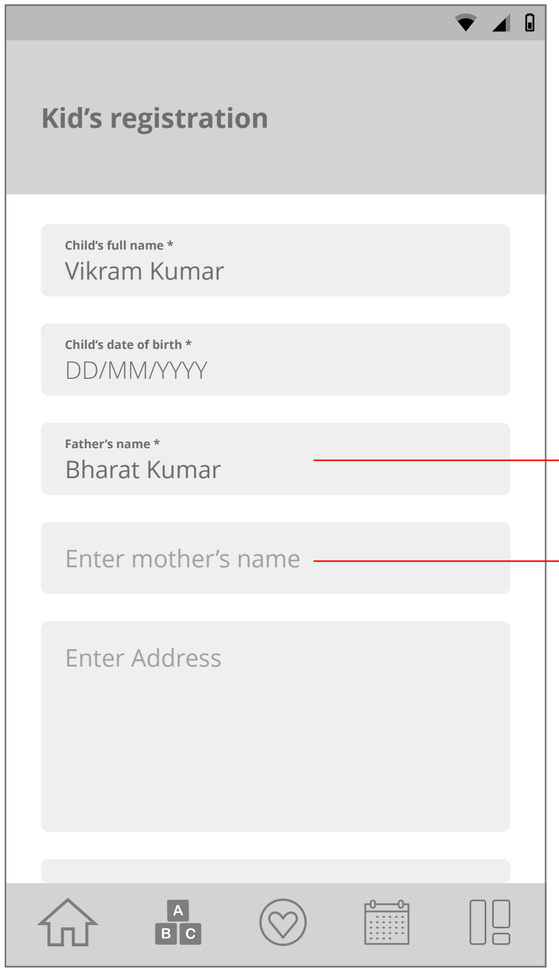
Wireframes




Home Screen - User can get a glimpse of today's work agenda and can plan work. The selected page will have filled icon, rest will be outline.




Kids section screen - Teacher can view profile, take attendance, register new kids. The floating ADD button leads to kids registration page.

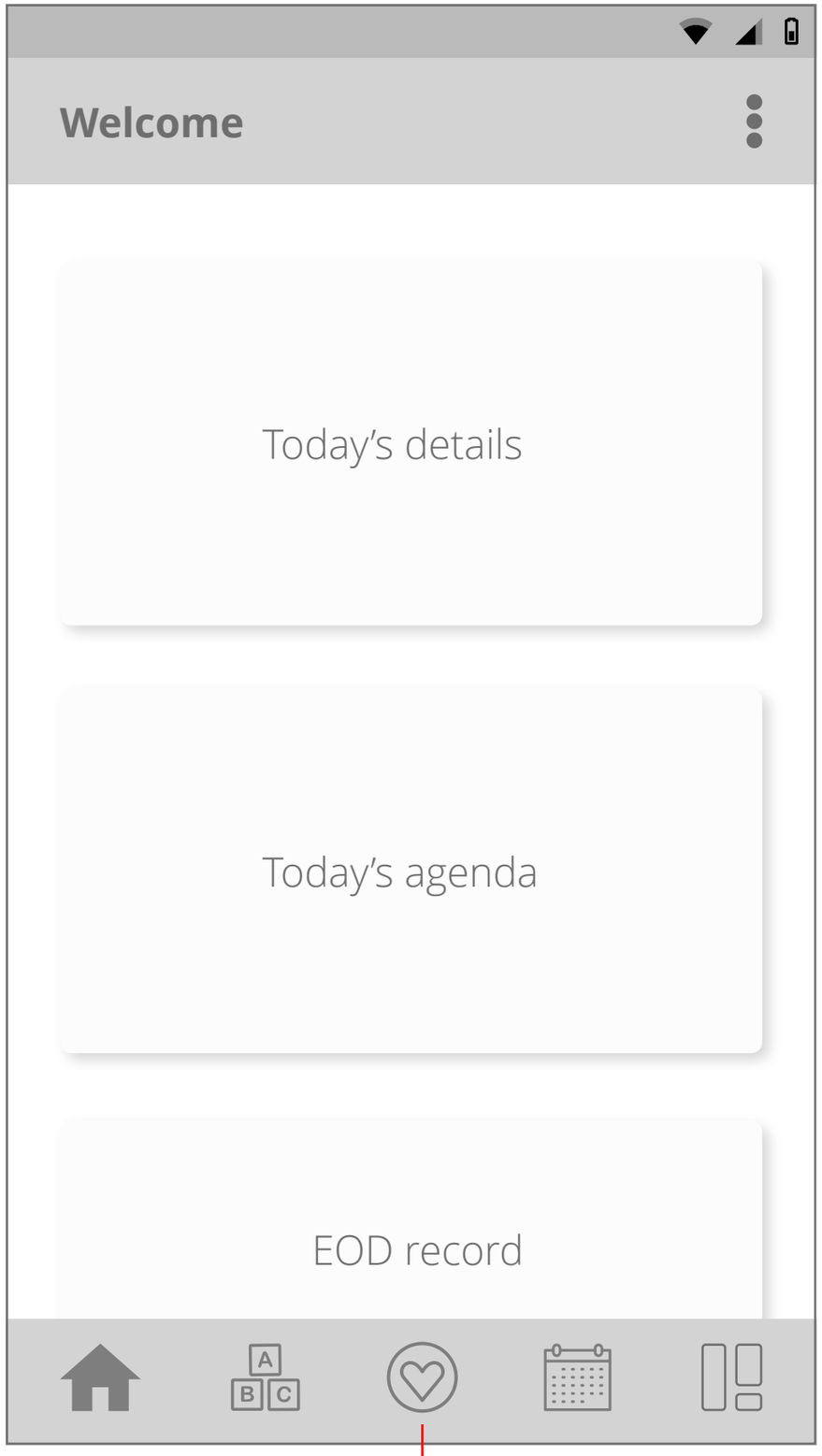



Form with mandatory details to be filed for child's registration.

After the input is added, the input field looks like this.

Before the input is added, the input field looks like this.

Wireframes

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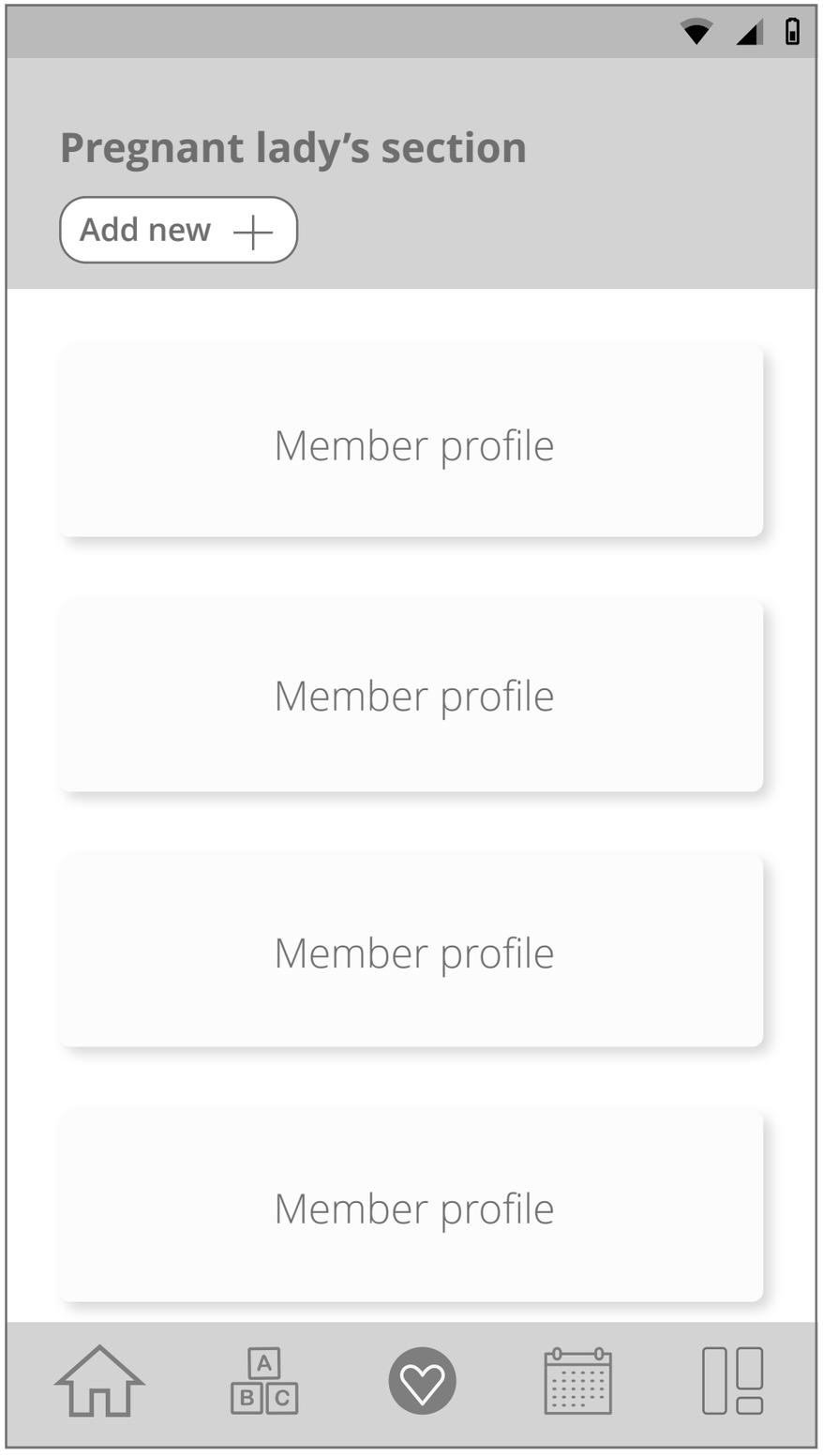
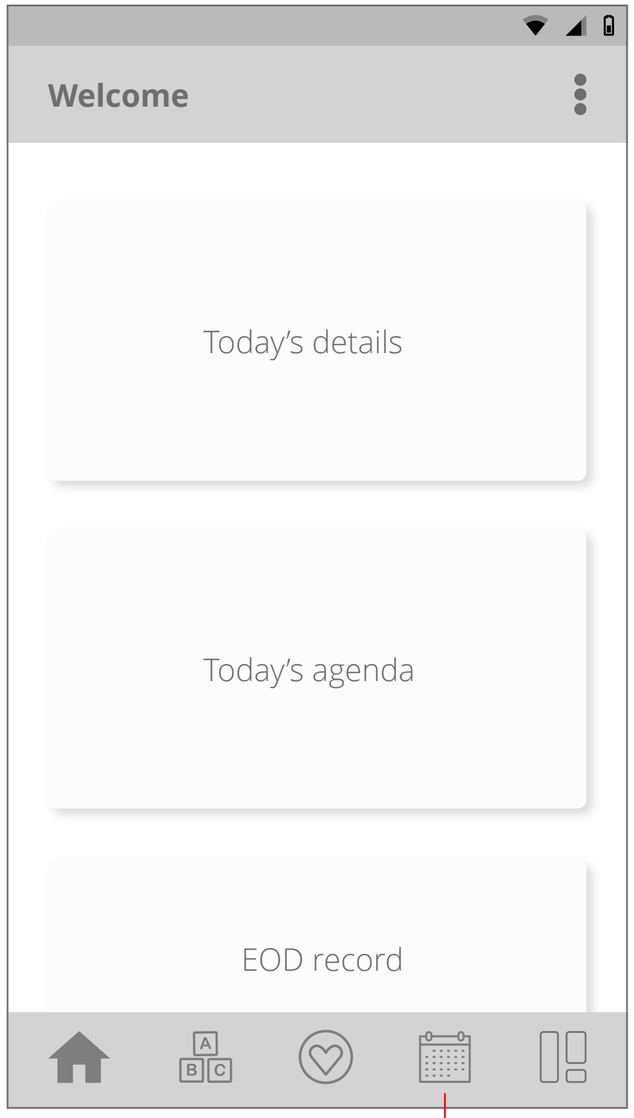



Pregnant lady screen - Teacher can view profile and register new member. The floating ADD button leads to member registration page.

Wireframes

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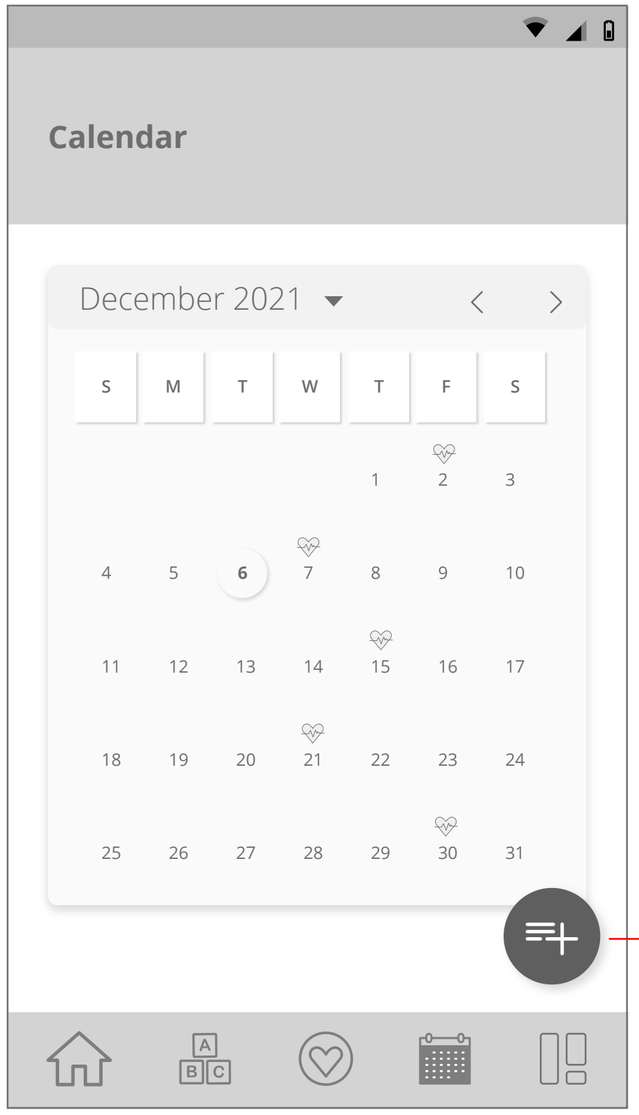
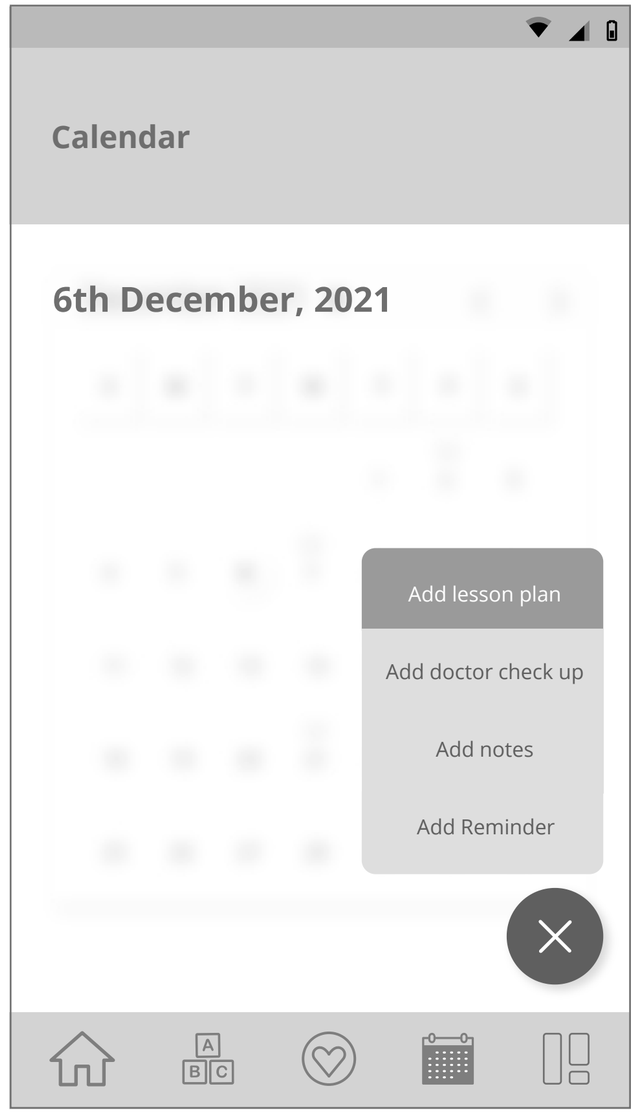
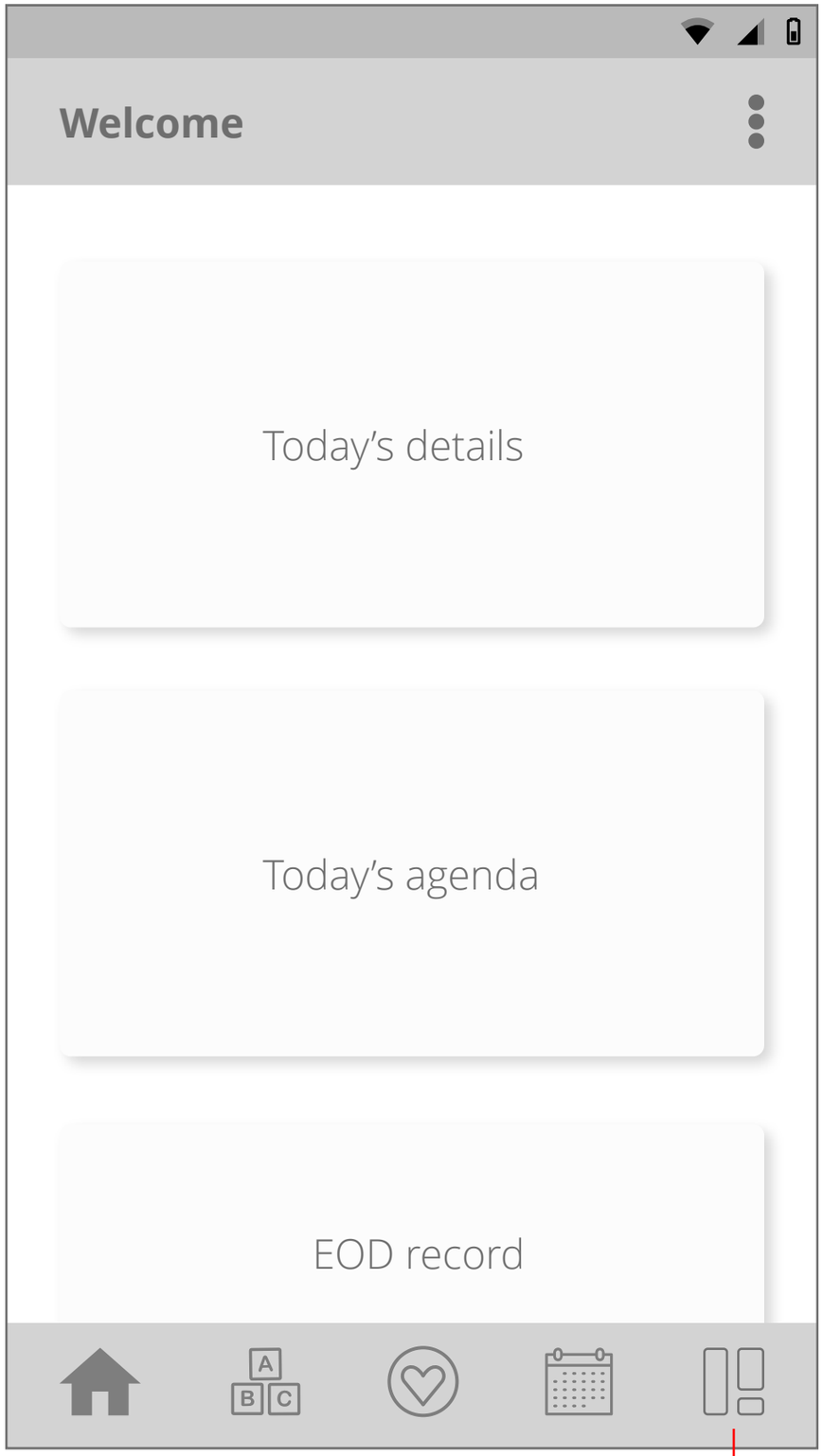



The calendar can allow the user to quickly view a particular day's work and record ( in past) and fill in upcoming day's plans. The heart icon depicts the date when doctor check up in scheduled.




Tasks that can be done in calendar.

Wireframes

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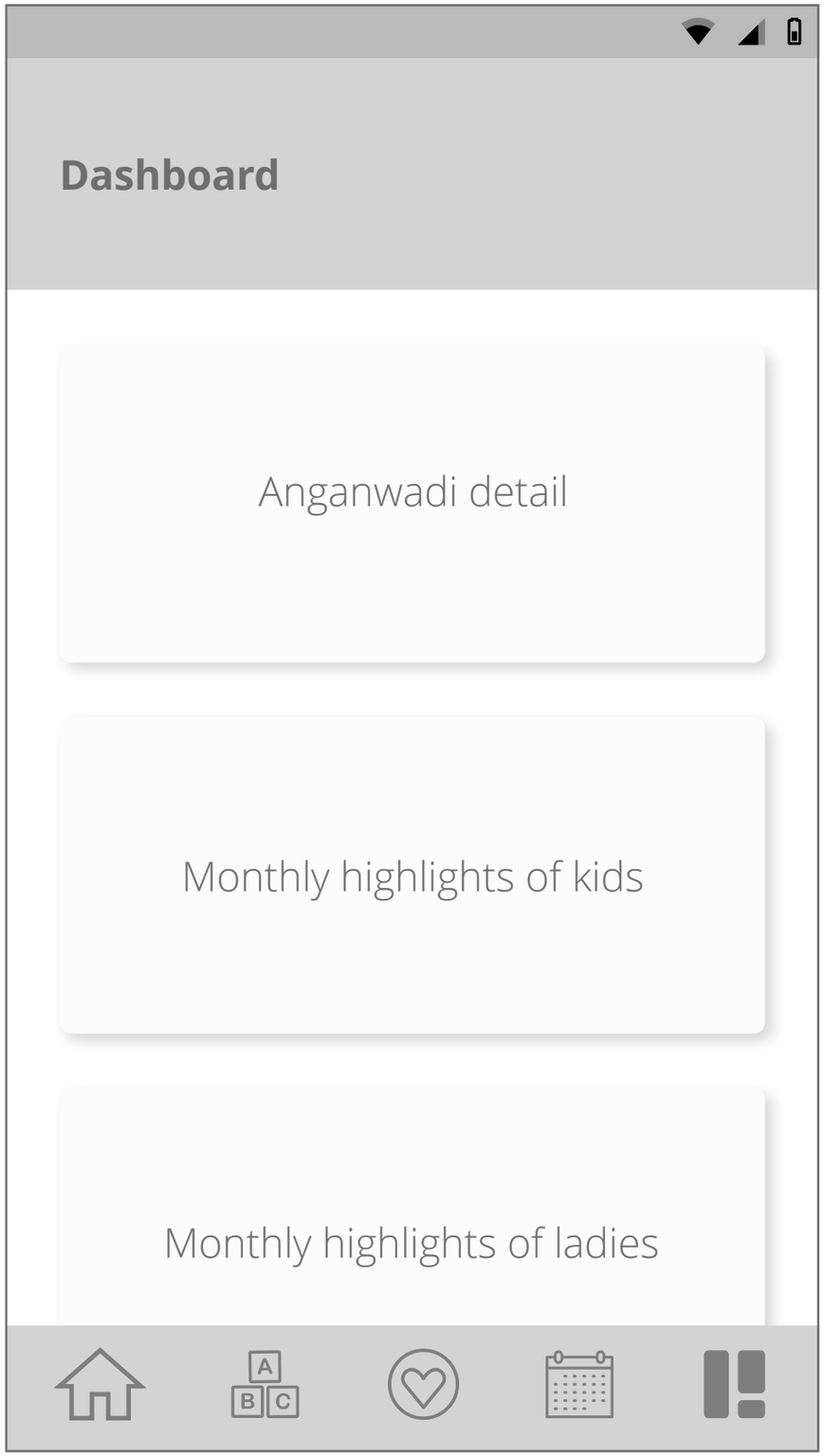
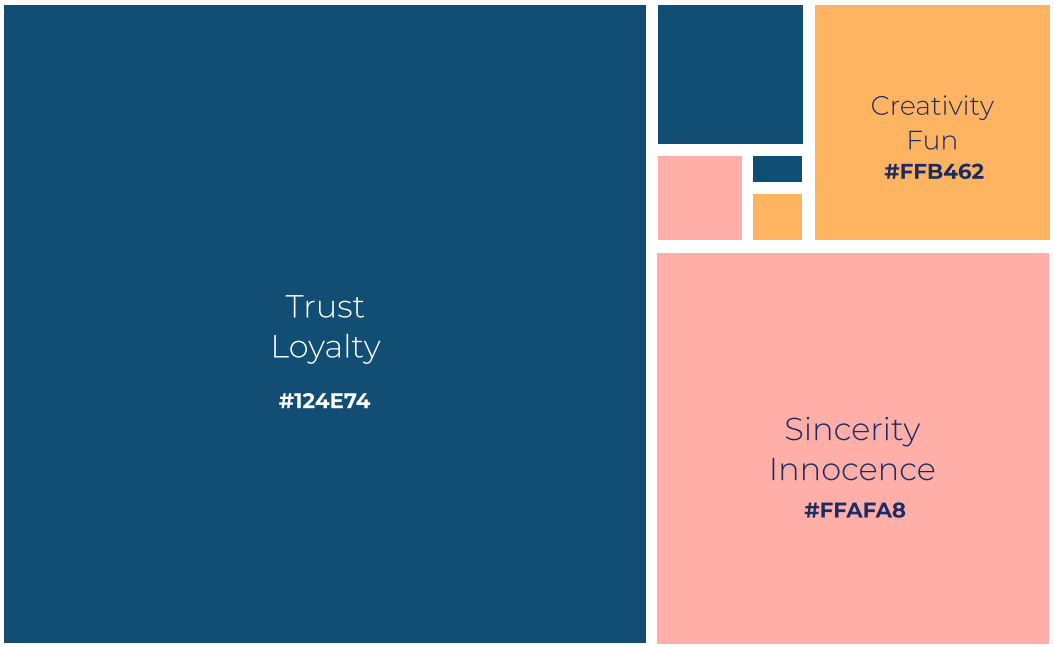



Dashboard to view overall details of particular Aanganwadi.

# Style guide

## Colour scheme and psychology




## Font and combinations

**Font family - Poppins**

| | |
|---|---|
| Lorem ipsum dolor sit amet | Light |
| Lorem ipsum dolor sit amet | Regular |
| **Lorem ipsum dolor sit amet** | **Medium** |
| **Lorem ipsum dolor sit amet** | **Semi bold** |
| **Lorem ipsum dolor sit amet** | **Semi bold** |

7

# Screen design

Screens
UI design

# Hi, Geeta Kumar!

Welcome back,

2 Dec, 2021
Thursday

## Lesson plan today

Kids poem - 2 minimum from english part 1 book.
Dance practice for children's day celebration.
Revision of alphabets.
Talk to parents about children's day.

Read more

## Nutrition today

Jowar roti
Cabbage sabji
Plain dal
Rice
Curd

| | |
|---|---|
| Calories | 300 |
| Fat | 20g |
| Protein | 12g |

## Govt. Scheme details

### Matru Purna

The food will be provided for 15 months, from the

# Kid's section

Total Strength: 23

Add new

**Vibha MG**

Age: 3
DOB: 12/03/2018
Phone: 9123456789

Attendance
02/12/2021

Present

**Bharat S**

Age: 3
DOB: 12/03/2018
Phone: 9123456789

Attendance
02/12/2021

Absent

**Rashmi E**

Age: 3
DOB: 12/03/2018
Phone: 9123456789

Attendance
02/12/2021

Present

**Vibha MG**

Age: 3
DOB: 12/03/2018
Phone: 9123456789

Attendance
02/12/2021

Present

# Women's section

Registered members: 8

Add new +

## Vibha MG

Age: 27
Phone: 9123456789
**Check up: 12/04/2020**

Tentative due Date
**12/03/2021**

## Rashmi N

Age: 27
DOB: 12/03/2018
**Check up: 12/04/2020**

Tentative due Date
**12/03/2021**

## Vibha MG

Age: 27
DOB: 12/03/2018
**Check up: 12/04/2020**

Tentative due Date
**12/03/2021**

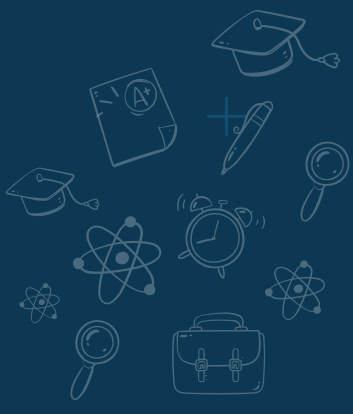
## Rashmi N

Age: 27
DOB: 12/03/2018
**Check up: 12/04/2020**

Tentative due Date
**12/03/2021**

# Calendar

2 Dec, 2021
Thursday



December 2021

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

Schedule doctor appointment

# Calendar

2 Dec, 2021
Thursday

Add lesson plan

Add doctor check up

Add notes

Add Reminder

Anganwadi 023

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Thursday

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### Nutrition today

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Cabbage sabji
Plain dal
Rice
Curd

| | |
|---|---|
| Calories | 300 |
| Fat | 20g |
| Protein | 12g |

### Govt. Scheme details

Matru Purna

The food will be provided for 15 months, from the

Anganwadi 023

## Kid's section

Total Strength: 23

Add new

**Vibha MG**
Age: 3
DOB: 12/03/2018
Phone: 9123456789

Attendance
02/12/2021
Present

**Bharat S**
Age: 3
DOB: 12/03/2018
Phone: 9123456789

Attendance
02/12/2021
Absent

**Rashmi E**
Age: 3
DOB: 12/03/2018
Phone: 9123456789

Attendance
02/12/2021
Present

**Vibha MG**
Age: 3
DOB: 12/03/2018
Phone: 9123456789

Attendance
02/12/2021
Present

Anganwadi 023

## Women's section

Registered members: 8

Add new

**Vibha MG**
Age: 27
Phone: 9123456789
**Check up: 12/04/2020**

Tentative due Date
**12/03/2021**

**Rashmi N**
Age: 27
DOB: 12/03/2018
**Check up: 12/04/2020**

Tentative due Date
**12/03/2021**

**Vibha MG**
Age: 27
DOB: 12/03/2018
**Check up: 12/04/2020**

Tentative due Date
**12/03/2021**

**Rashmi N**
Age: 27
DOB: 12/03/2018
**Check up: 12/04/2020**

Tentative due Date
**12/03/2021**