Morgan Stanley Code to Give India ’23

Bal Asha Track: Team - 1 (OpenArms)

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Problem Statement

- Bal Asha Trust supports adoption of orphaned children in a systematic way.

Storage System Issues: Manual **File System**, Data Inconsistency, difficulty in maintenance

Social worker's Issues: Difficult to adapt for new person, Manual **File Entry**

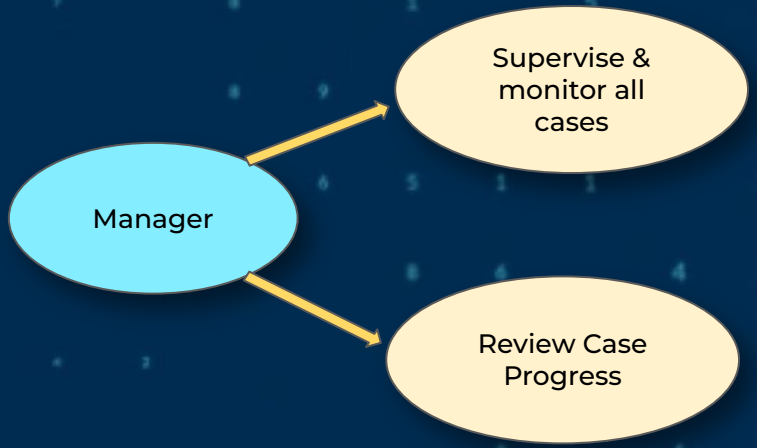
Manager's Issues: Difficult to monitor all cases

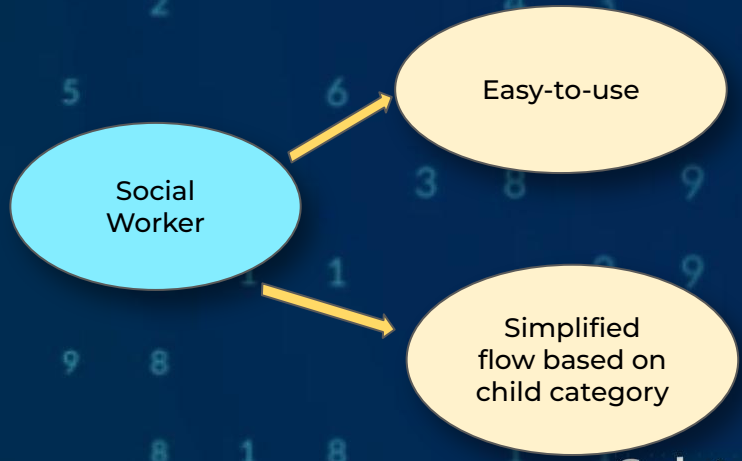
Consequences:

- Operational Inefficiency
- Inability to track
- Elongation of Process
- Urgent cases may get delayed
- Risks child care

Proposed Solution:

- Platform to digitize adoption process of orphans => **(Abandoned / Surrendered by parents / Admitted by guardians).**
- **Simplified Process:** ‘Parents Investigation’ Step & ‘Adoption Docs’ Step
- Users => **(Managers & Social Workers)** : easily manage case-related processes & data.





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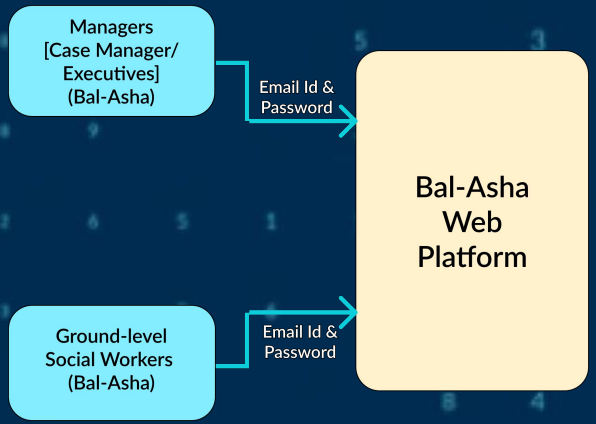
Process Flow Diagram

- We **divide the process into a sequence of steps** according to the information:
  - User registers or logs in to our platform.



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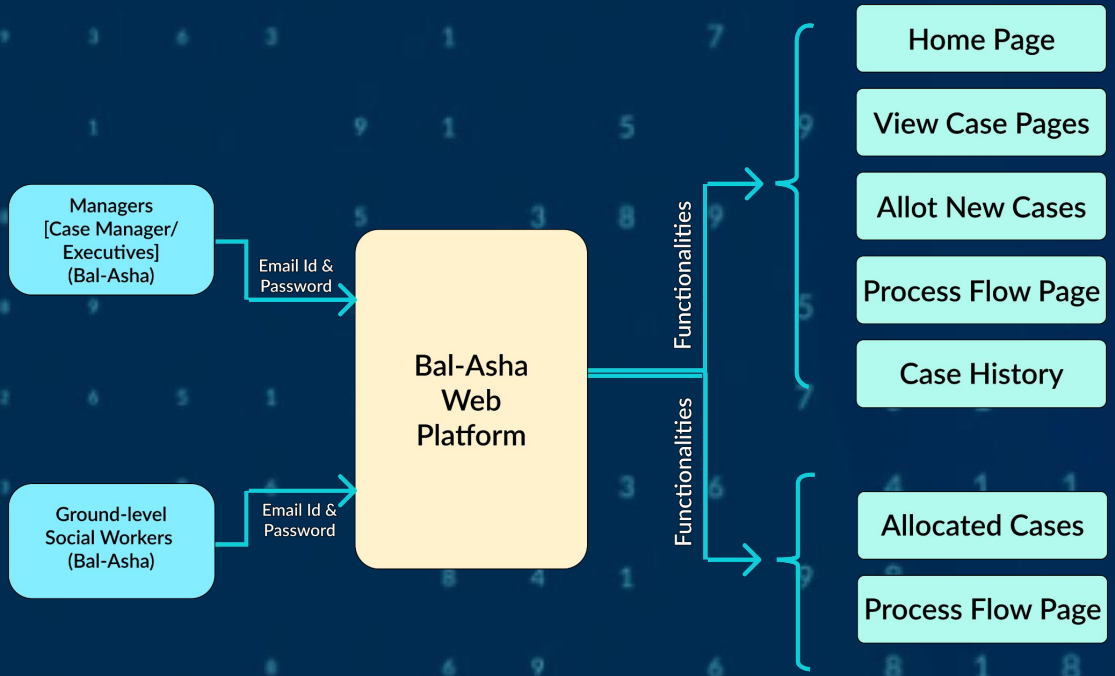
Process Flow Diagram

- We **divide the process into a sequence of steps** according to the information:
  - Different portal based on role.



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Let us show the Demonstration for our solution first.

Then, we'll come back to the presentation.

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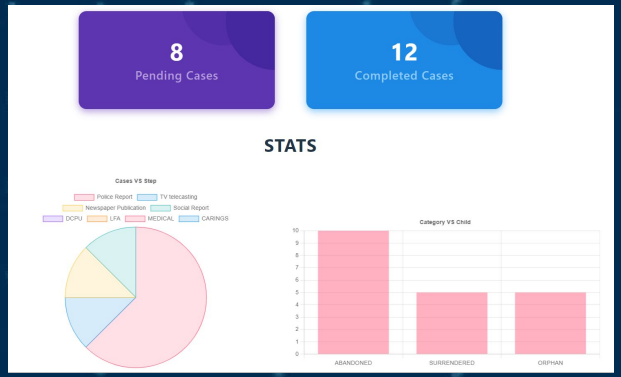
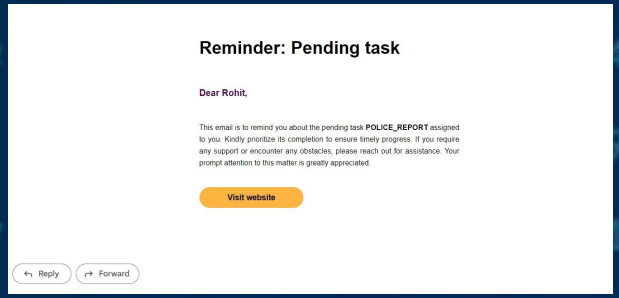
Notable Features - Desktop View



Data Analytics at Manager Home Page

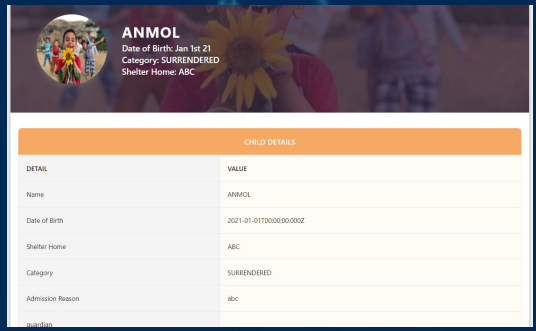


Email reminder for Social Worker

NAME OF CHILD	GENDER	AGE	CATEGORY	NEXT STEP
MANMOHAN	MALE	0	ABANDONED	POLICE_REPORT
MANMOHAN SINGH	MALE	0	ABANDONED	SOCIAL_REPORT
PQRS	FEMALE	2	ABANDONED	POLICE_REPORT
Rahul	MALE	1	SURRENDERED	DCPU_REPORT
Ravi Kumar	MALE	0	ABANDONED	POLICE_REPORT

Rows per page: 5 1–5 of 6

'List Sorting' (Ex: using age) & 'Download file'



Child profile with all case data

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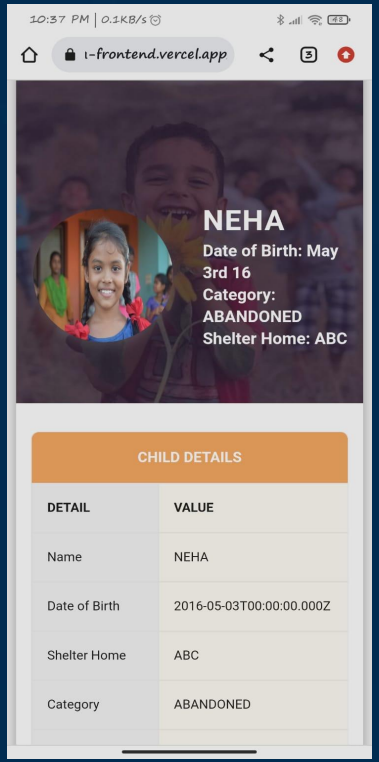
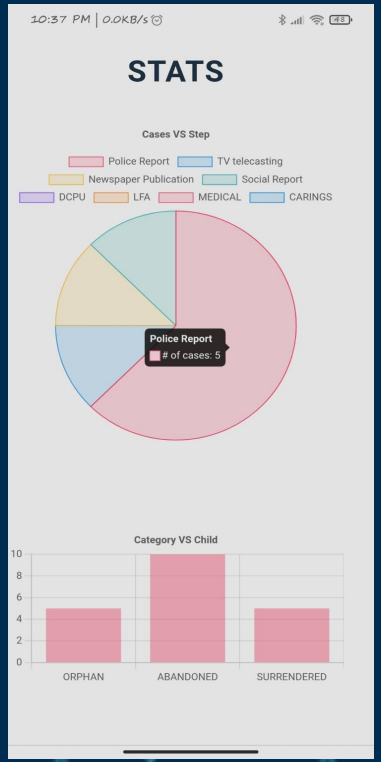
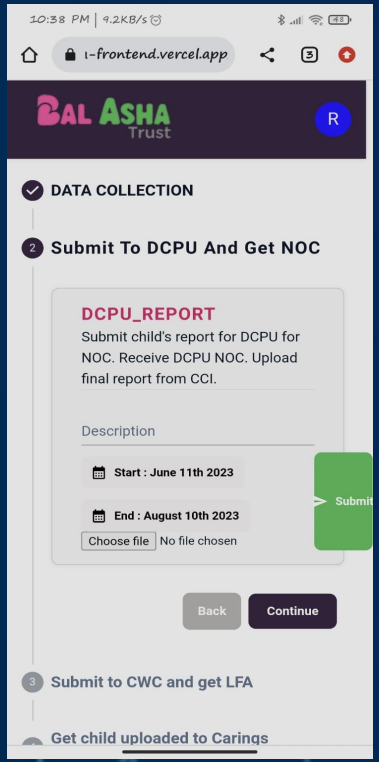
Notable Features - Mobile View

- UI is Mobile Responsive =>







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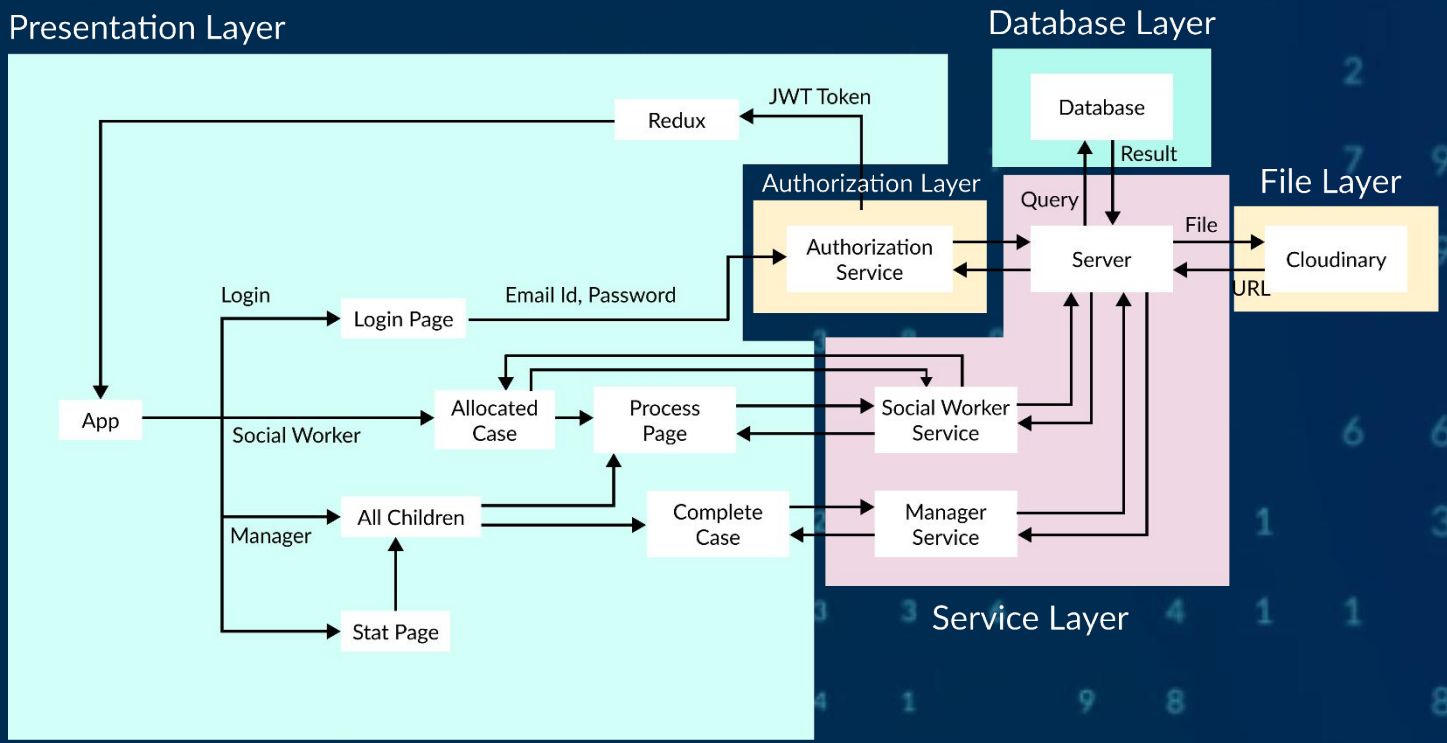
Technical Stack & Architecture



Backend

Frontend

Database

Object Data Modelling

Authentication

BCRYPT

HTTPS Library

AXIOS

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Future Works

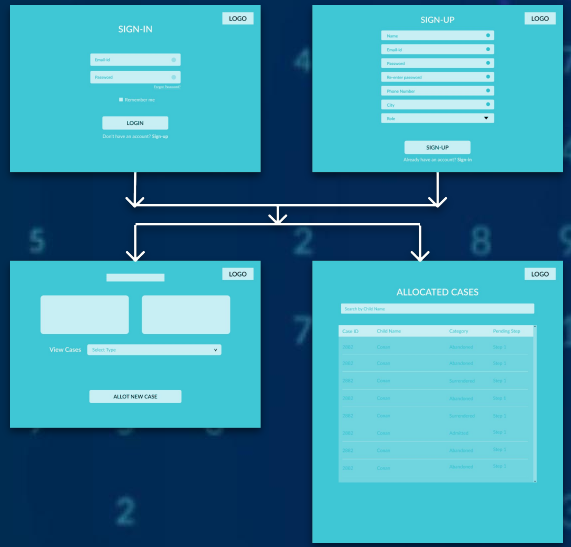
- Data Encryption at state & transit
- Mobile App
- Multilingual Support
- Risk Profiling & Scoring
- Child category swapping

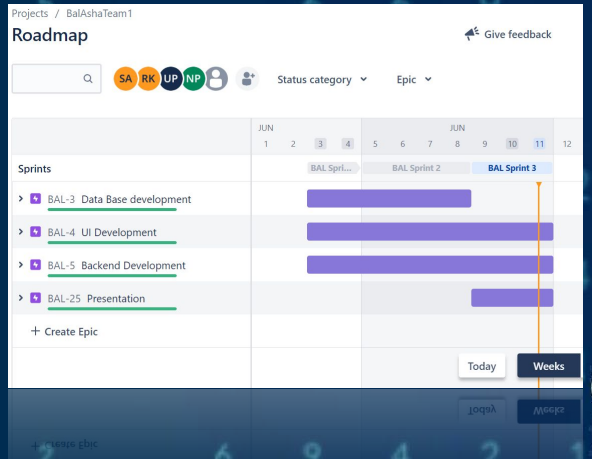
Challenges

- Team size reduced to 50%.
- 2 Members having ML profile,
  Less prior experience in Web Development.
- Planning features from real-life user POV.

Learnings

- Project planning and time estimation.
- Agile methodology for project management with different sprint cycles.
- Using Figma for UI wireframes made Frontend work simpler.





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THANK YOU

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