So lets get started

How everything works

Frontend :- HTML, CSS

Backend :- Python

Hosting :- → Apache Server on Debian VS
→ Debian on google VM

Database :- google sheets, drive

Login :- google Auth

Use Cases / Functions

(1) User

1) Name
2) Batch
3) Attendance → breakfast, lunch, dinner
4) Money pending

} Profile Page

(2) Admin

(1) Tamper Attendance
(2) Issues menus } on Home Page on website
(3) Issues notices
(4) Issue Warnings

(3) Home Page

(1) menu
(2) Notice → Daily, monthly Hisaab, Total Balance, Total Expenditure
(3) Expected cost
- Average
  - per breakfast
  - per lunch
  - per dinner
- Live
  - per breakfast
  - " lunch
  - " dinner

} cost from live calculation

- Special Thanks → To Ben Tobin

Calculations

(1) Attendance

User → RFID card issued by Admin or Ben Tobin

↓

There is RFID reader in mess

↓

Breakfast : 6am to 11 am
Lunch : Sat and Sunday only:
Dinner : 6pm to 12 am

↓

User → Scan RFID card

↓

Inserted → Python mind
↳ fetch date and time

- if 1st time in that time slot → attendance +1 → data updated on Drive and sheets
- 2nd time → message → already done for charge message / ask admin

(2) Cost

On Drive / sheets

From Attendance

Attn × cost = money to be paid

(3) Per Plate cost Calculation

Total monthly expenditure
Total users
→ Basic logic

→ PPC → then divided into
- Breakfast
- Lunch
- Dinner

Pages

(1) Home
(2) Profile
(3) Attendance :- Calendar Pattern/style
(4) message Admin
(5) sign In [profile]
(6) login Page [Profile]
(7) Payment [Profile]

(1) Home

→ To display
1. menu
2. notices by Admin
3. live Attendance Pie chart
4. Avg per Plate cost

(2) Profile

1 Name Profile Photo from google
2 Batch
3. Attendance
4. cost
5. membership

(3) Attendance Page

2025

Jan Feb March
April 0 June
- - - -

→ Praise Move for particular attendance

(4) message Admin

Admins
- message layout
- only 2 message limit in 100 words for 1 day