<p style="text-align:center">Module Name- **SA2-Mess Management(WEB)**
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All the API used in the module are mention below :-

1. /mess/vacationFoodApi- **Partially Implemented**
2. /mess/rebateApi - **Implemented**
3. /mess/menuApi - **Implemented**
4. /mess/paymentsApi - **Not Implemented/ Needs more clarification on this from faculty.**
5. /mess/monthlyBillApi - **Not Implemented**
6. /mess/messBillBaseApi - **Implemented**
7. /mess/messRegApi - **Partially working / De registration needs to be implemented**
8. /mess/feedbackApi - **Implemented**
9. /mess/menuChangeRequestApi- **Implemented**
10. /mess/specialRequestApi - **Partially Implemented**
11. **Announcements Api - Not Implemented**
12. **Generate reports Api - Not Implemented**
    These apis are not required thus api endpoints not mentioned.
13. **Mess Meetings Api - Not required as no use case**
14. **Mess Minutes Api - Not required as no use case**
15. **Non Veg Api - Not required as no use case**
16. **Non Veg Menu Api - Not required as no use case**
17. **Mess Info Api - Implemented but Not required as no use case**

Overview of the module:-

Interface will enable students to register for mess, login, view mess menu, respond to vacation food request, apply for rebate , request special food, make payment, give feedback, view announcement and request for deregistration.

This interface will help the mess caretaker and the mess warden to coordinate, control and help users to view past records and access all the functionalities of the mess without having a visit to the mess physically.

The users of this module will be the registered students of the Institute (PDPM IIITDM Jabalpur), Mess Warden and Mess Caretaker. The module will be used by the students, mess warden and mess caretaker.

SRS Google Doc Link = 📄 *Mess Management*

APIs:-

- ❖ **Already Implemented (**This means that API is already implemented and working as expected.**)**
    - ➢ *UC#2- view menu - [Uses Api #3]* :
        - ■ Menu Api has already been implemented and it fetches the menu data from the database.
        - ■ Non veg menu Api is currently not required
        - ■ The Menu data is properly fetched from the database.
        - ■ **Database**- central_mess_menu table

    - ➢ **UC#3- View Bill** - [Uses Api **#5**] :
        - ■ Student gets to view his monthly bill.
        - ■ **Database** - central_mess_monthly_bill table

    - ➢ *UC#4- Give_feedback- [Uses Api #8]* :
        - ■ Students can submit their feedback and can also view it later.
        - ■ The feedback is stored into the database so that it can be accessed later.
        - ■ **Database** - central_mess_feedback

    - ➢ *UC#6- Apply for Rebate - [Uses Api #2]* :
        - ■ Students can fill the application form for rebate.
        - ■ **Database** - central_mess_rebate table

➢ *UC#7- check Rebate status - [Uses Api#2]* :
  ■ Students can view the status of the rebate application that they have submitted.
  ■ **Database** - central_mess_rebate table

➢ *UC#9- view Feedback - [Uses Api#8]* :
  ■ Mess Caretaker and Warden can view the feedback of the mess given by the registered students.
  ■ **Database** - central_mess_feedback

➢ *UC#11 - respond_rebate_request - [Uses Api#2]* :
  ■ Mess Caretaker can update the mess menu
  ■ **Database** - central_mess_rebate table

❖ **Yet to be implemented or Partially Working**
  ➢ **UC#1-** *Request for Registration/ Deregistration - [Uses Api #7] Not implemented*:
    ■ No such feature is currently available for students
    ■ **Database** - Students Data, Payments Data, Mess Data, Registration Data
  ➢ **UC#5-** *Respond to vacation food request* [uses api *#1*] - Partially Implemented:
    ■ Students respond to the vacation food request form generated by the caretaker.
    ■ Api needs to be implemented newly because the use case description has been changed from the before.

- **Database** - Students Data those are Registered in Mess, Food Request Table in Database.
- ➢ **UC#8- *Special Food Requests Api*** [uses api **#10**] - Partially Implemented:
  - Students need to create a special food request. The student side form needs to be updated with new fields and new backend checks need to be added.
  - There is also a need for the caretaker to respond to the special requests made by the students and within the stipulated time frame. Thus, need to add this waypoint also to the same api.
  - **Database** - Students Data those are Registered in Mess, Special Req. separate table.
- ➢ **UC#12- *Create Vacation Food Request*** [uses api**#1**] - Partially Implemented:
  - As the old way of creating the vacation food request has been changed as mentioned by the Faculty Mentor. Now the caretaker will create a form which interested students will fill. So the old way of students requesting vacation food needs to be modified with a new way as prescribed by the faculty in charge.
  - Caretaker will create a vacation food request form which students have to respond to.
  - **Database** : Students Table who are reg., Vacation food req. Table.

- ➢ **UC#13 *Make Announcements*** - [no api available, suggested name - **announcements api, #12**] - Not Implemented :
  - Caretaker and mess warden will submit announcements which will be visible to all registered students of the mess.
  - Need to be built from scratch, it's a new feature added for the first time.
  - **Database** - Caretaker Info, Mess Warden Info, Registered Students Table, Announcements Table.

- ➢ **UC#14 *View Announcements*** - [no api available, suggested name **announcements api, #12**] - Not Implemented
    - ■ The announcements made by caretaker or mess warden must be visible to all the registered entities involved.
    - ■ **Database** - Caretaker Info, Mess Warden Info, Registered Students Table, Announcements Table.

- ➢ ***UC#15 - manage bill*** - *[Uses Api#5 and Api#6]* Partially Implemented:
    - ■ Mess Caretaker can update the base bill amount (working).
    - ■ The feature of generating bills is not available as of now.
    - ■ **Database** - Database - central_mess_monthly_bill and central_mess_billbase

- ➢ ***UC#16 - view registrations*** - *[Uses Api#7]* Partially Implemented::
    - ■ Mess Caretaker can search for student and check his registration status
    - ■ List of registered students is currently not available
    - ■ **Database** - Database - central_mess_mess_reg

- ➢ ***UC#17 - manage_registrations*** *[Uses Api#7]* :
    - ■ Mess Caretaker can register a student
    - ■ De register feature is not available
    - ■ **Database** - Database - central_mess_mess_reg

- ➢ **UC#18 *Generate Report*** - [no api available, suggested name **GenerateReports Api #13**] - not implemented
    - ■ The Mess Warden should be able to search the whole students data and should be able to make queries on that data and should also be able to generate a pdf or xlsx report of that data.

■ Need to be built from scratch, it's a new feature added for the first time.
■ **Database** - All the data related to the mess module should be available for this api.

Current problems —
- Non Veg Apis and some other apis like mess info api and student mess committee api needs to be commented out as of now as it was present in the old SRS and thus have been implemented, but they don't work very well also are not included in the new SRS thus these apis will be commented out for now.
- Generate report functionality is added for the first time in the SRS hence, no work is done on that functionality, thus that functionality needs to be built from the scratch.

Google Doc Link - 📄 Api doc