



Document Reference

Document Number	SS-2024
Document Name	SHANKARA CANCER CARE APPLICATION
PO reference	NA
Customer Name	SHANKARA CANCER CARE
Customer Project	
Customer Email Id.	
Customer Contact No	

Document Information

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Revision History

Revision Number	Updated date	Change Description
0.1	28/05/2024	Initial Draft for review
0.2	04/06/2024	Added Login module, updated Fieldworker module and FieldManager module
0.3	05/06/2024	Updated Field manager module
0.4	06-06-2024	Updated Doctors module
0..5	06-06-2024	Updated Psychiatrist, MedicalAssistant and Data entry operator module and User interface section for all modules
0.6	08-06-2024	Updated the Fieldmanager,Doctor and Medial assistment ui
0.7	12-06-2024	Updated FM,Doctor module
0.8	13-06-2024	Updated FM module
0.9	18-06-2024	Updated Doctors module
1.0	19-06-2024	Updated Doctors module data structure for procedure form , medical assistant, Updated UI for Data entry module, Added Operation Head/Director module
1.1	21-06-2024	Updated database structure for tcc followup form and tcc form
1.2	24-06-2024	Changed the keys to start with alphabets instead of numbers (a-1stpage,b-2nd ,c-3rd,d-4th,e-5th,f-6th, g-7th,h-8th)
1.3	05-07-2024	Updated the age and reason for uptake in tcc form

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1.4	08-07-2024	Updated procedure form,camp_report node structure
1.5	09-07-2024	Updated the keys for tcc form fields, spmn keys for procedure form
1.6	18-07-2024	Updated the keys for tcc followup form fields
1.7	30-09-2024	Updated TCC form and followup , medical assistant node structure
1.8	22-04-2024	camp report node is updated, removed cr_retrival node, updated pending feed back for both field worker and field manager, updated field worker feedback form, updated Form_1,updated patients node, updated Form_3 node
1.9	28-04-2025	TCC_followup , field manager feed back node is updated and added “fmca” in Form_1 node In TCC form value key of the “fb” node is updated
2.0	12-05-2025	“brst_exm” node updated under “Form_3”
2.1	02-06-2025	changes with respect TCC and Form_3 nodes
2.2	18-06-2025	Add additional options under “Motivation stage assessed” in TCC form and TCC follow up form
2.3	05-12-2025	Added address node in the patient1 node and also updated profile_history node
2.4	19-01-2026	Field Daily report - FW node is added TCC first followup node is updated Clinical Form Followup
2.5	29-01-2026	Cervical examination is updated in Inperson form procedural form and clinical form node structure is updated as added HPV DNA

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PATENT INFORMATION

-NA-

1 INTRODUCTION

Shankara Cancer care clinical trials is an android application used for screening camp done by Shankara Cancer care. It comprises of different users like Field worker, Field manager, Operational Head/Director, Doctor, Medical Assistant, Psychologist, Data entry operator

1.1 Purpose

The purpose of this document is to capture the software design aspects for the Shankara Cancer care and detail architecture, interfaces, dependencies and traceability of the design to the requirements.

1.2 Scope

The scope of the document is limited to software design aspects of Shankara Statistics and their interactions and shall embellish architecture, design decomposition, data flow, definitions and detailed component design.

1.3 Audience

The Audience for this document is limited to designers and developers of Shankara Statistics

1.4 Definitions / Acronyms / Abbreviation

1.4.1 Definitions

(a) Field Worker: Person using the svasthya app to conduct the survey of the patients.

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1.4.2 Acronyms and Abbreviations

Abbreviation	Full Form
SS	Shankara statistics
FW	Field Worker
FM	Field Manager
DR	Doctor
MA	Medical Assistant
TCC	Tobacco cessation counselling

1.5 Bibliography

1.6

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2 SOFTWARE OVERVIEW

Shankara Cancer care is the screening application where the data of patients from different panchayats and village will be collected in the camp and the patients will be screened for cancer.

3 SOFTWARE ARCHITECTURE

Shankara Cancer screening contains following modules

- Login
- Field Worker Module
 - DataCollection
 - Followup
- Field Manager Module
 - PreSurveyForm
 - Survey form
 - Camp Report
 - Followup
- Medical Assistant Module
 - VitalRecording Form
- Doctor Module
 - History
 - Survey Clinical forms
 - Clinical reports
 - Screening
 - Remote screening
 - Inperson screening
 - Clinical Report form
 - Followup form

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- Psychiatrist Module
 - Counselling
 - Followup
- Data Entry Module
 - Vital record entry
 - Clinical form entry
 - TCC form entry
- Operational Head and Director Module
 - Presurvey
 - Vital Report
 - Clinical form
 - TCC
 - Review CampReport form

4 DESIGN CONSIDERATIONS

4.1 Libraries

NA

4.2 Design pattern

The application follows a Model View Controller(Observer) design where we have forms for view and the data will be fetched as and when it is changed.

4.3 Standards

NA

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4.4 Protocols

BLEGattProtocol

4.5 Technology

4.5.1 IDE

Android Studio is used for the development.

4.5.2 OS and System Requirement

As the IDE supports Linux OS . Ubuntu operating system is being used for development .

4.5.3 Compiler

Changes are made, saved and run using Android Studio compiler.

4.5.4 Debugger

Android Studio has the default debugger which is used for debugging .

4.5.5 Testing

Testing to be carried out on various phones like Nokia,Samsung etc.

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5 MODULE DESCRIPTION

5.1 General Description

The section elaborates the software modules involved in Shankara cancer care application and their functionalities.

Following are the different modules in the application

- Login Module
- Field Worker Module
 - DataCollection
 - Followup
- Field Manager Module
 - PreSurveyForm
 - Survey form
 - Camp Report
 - Followup
- Medical Assistant Module
 - VitalRecording Form
- Doctor Module
 - History
 - Survey Clinical forms
 - Clinical reports
 - Screening
 - Remote screening
 - Inperson screening
 - Clinical Report form
 - Followup form
- Psychiatrist Module
 - Counselling
 - Followup

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- Data Entry Module
 - Vital record entry
 - Clinical form entry
 - TCC form entry
- Operational Head and Director Module
 - Presurvey
 - Clinical form
 - TCC
 - Review Survey summary form

The following section extends the module level details and lists the top level subroutines associated with each module.

5.2 Software Modules

5.2.1 Login

5.2.1.1 Identification: LoginActivity Class

5.2.1.2 Type: Module

5.2.1.3 Purpose:

Login module is to login to different roles.

5.2.1.4 Function:

Login module shall check the role of the login id and password based on the roles in the users node and display respective screens

5.2.1.5 Database Structure:

- panchayats
 - pchid (number)
 - pchname (string)
- villages
 - vid: (number)

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-pchid:(number)

-vname-(string)

U_pchyat

- pchid (number)
 - vid (number)
 - uid (patient uids)

● users

- uid
- pwd : value (string)
- role : value (string) (fw,fm,ma,dr,oh,psy,do)

5.2.2 FieldWorkerModule

5.2.2.1 Identification: FieldWorkerActivity Class - Currently TantraMainActivity

5.2.2.2 Type: Module

5.2.2.3 Purpose:

FieldWorker module is to capture the activities done by the fieldworker for a particular panchayat/village which involves data collection and updating followup details.

5.2.2.4 Function:

Survey Form tab will be updated using

- public void cancer_general_module_view(View pageView, FragmentActivity context, String ID)
- public void cancer_female_module_view(View pageView, Context context, String ID)
- public void svasthya_snapshot_module_view(View pageView, FragmentActivity context, String ID)
- public void oral_screening_module_view(View pageView, Context context, String ID)
- public void lesion_module_view(View pageView, Context context, String ID)
- public void photo_module_view(View pageView, Context context, String ID)

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Fieldworker class shall implement the Followupinterface,

FollowupInterface shall contain update_followup_data(context,uid,data)
 read_followup_data(uid)

Vitals shall be updated using method svasthya_snapshot_module_view(View pageView, FragmentActivity context, String ID)

5.2.2.5 Database Structure:

Nodes used:

- **field_worker**
 - **uid**
 - fwid:string
 - name : string
 - phno : number
 - addr:string
 - age:string
 - fmid : string

Ecg data will be concatenated in the script from ECG_DEVICE node and inserted into ECG_Realtime node and patientecgdata node

Live plot will be displayed using ECG_plot and PPG_plot nodes

PPG data will be concatenated in the script from PPG_DEVICE node and inserted into PPG_Realtime node and patientppgdata node

- **context_assessment,**
 - uid
 - vitalsdata

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- **follow_up**

 - uid

 - ts: number

 - type: string (values – scr,tcc, tstng: value , tmt:value) (shall be taken from followup_pending node)

 - fu_status: string(y/n)

 - ctc_mthd: string (pc,cfm,cvr,hv)

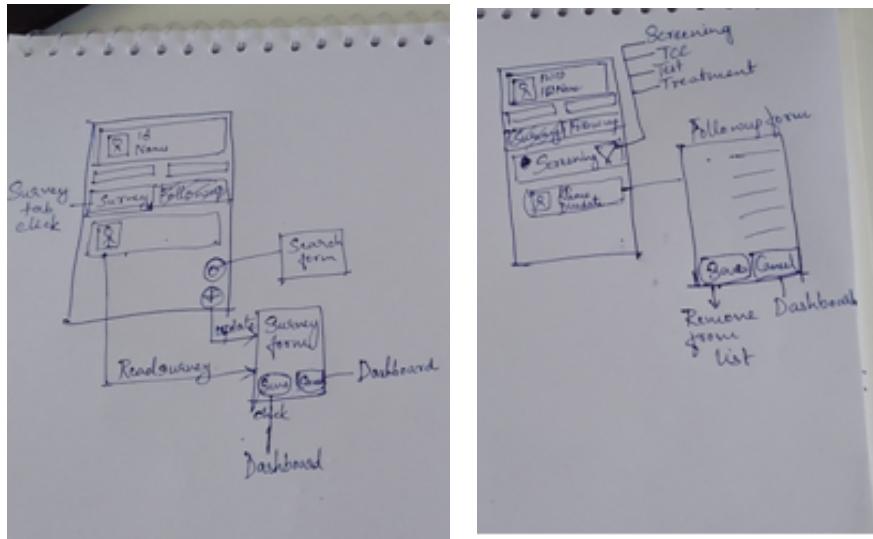
 - rst : string (wv,nwv,ns)

 - rsn: string

Type testing(tstng) values- clspy,mgphy,usg

Type treatment(tmt) values – lsr,vth

5.2.2.6 User Interface:



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5.2.3 FieldManager Module

5.2.3.1 Identification: FieldManager ActivityClass

5.2.3.2 Type: Module

5.2.3.3 Purpose:

FieldManager module is to update the PreSurvey form, Camp Report and view the activities done by the fieldworker for a particular panchayat/village which involves ClinicalForm and followup details.

5.2.3.4 Function:

FieldManager Activity shall have FieldManagerID and FieldManagerName , search option, selection of Panchayat and Village and Tabs which contain Presurvey, SurveyForm,CampReport and Followup

FieldManager class shall implement the Followupinterface, SurveyInterface

SurveyInterface shall contain the following methods

- update_camp_report(context,panchayat/village,data)
- read_camp_report(panchayat/villageid)
- update_presurvey(context,panchayat/villageid,data)
- read_presurvey(panchayat/villageid)

FollowupInterface shall contain read_followup_data(uid)

Survey Form tab will be updated using

- public void cancer_general_module_view(View pageView, FragmentActivity context,String ID)
- public void cancer_female_module_view(View pageView, Context context,String ID)
- public void svasthya_snapshot_module_view(View pageView, FragmentActivity context,String ID)
- public void oral_screening_module_view(View pageView, Context context,String ID)
- public void lesion_module_view(View pageView, Context context,String ID)
- public void photo_module_view(View pageView, Context context,String ID)

5.2.3.5 Database Structure:

Node used

- **field_manager**
 - **fmid :number**

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- o name:string
- o age:number
- o addr :string

- form1 - to be renamed as survey_form (To be considered while cloud optimization)

+pid/vid/uid/timestamp

+aah:string(Age at hysterectomy)
+abrt:string (Abortion)
+abt_ca:string (y/n/absnt) (Have you heard about cancer)
+acf:string (Alcohol consumption frequency)
Values : Daily - dly, Weekly - wkly, Monthly - mnly, Occasionally - ocsnly
+acs:string (y/n/nvr/absnt) (Alcohol consumption status)
+acsx:string (Alcohol consume since when)
Values : less than 1 year - an, 1-5 years - ao, 6-10 years - ap, 11-20 years - aq, 20-40 years - ar, > 40
years - as
+afc:string (Age at first child)
+age_m:string (Age at menopause)
+age_me:string (Age of menarche)
+aqtp:string (y/n) (Attempted to quit tobacco in past)
+bflh -Breast feeding history
+ch1 : string (Child 1)
+ch2 : string (Child 2)
+ch3 : string (Child 3)
+ch4 : string (Child 4)
+ch5 : string (Child 5)
+ch6 :string (Child 6)
Values : did not breast feed, less than 3 months, 3-6 months, more than 6 months
+ca_p:string (Cancer present)
+csf
+bst : string (Breast)
+crl : string (colorectal)
+cvx : string (cervix)
+oc : string (oral cavity)
+os : string (oesophagus and stomach)
+oth : string (other)
+ov : string ()
+pstate : string (Prostate)
Values : tr, fl
+dia_p:string (tr , fl) (Diabetes present)
+fmca:stirng(y,n) (blood related family member diagnosed with cancer)
+f1d : object(family1 diagnosed)
+sts:string - status (a1 - alive, d1 - dead)
+toc:string - type of cancer
+ut:string - Undergo treatment (y/n)

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+wd:string -When diagnosed
+f2d : object(family2 diagnosed)
+sts:string - status (a1 - alive, d1 - dead)
+toc:string - type of cancer
+ut:string -Undergo treatment (y/n)
+wd:string - When diagnosed
+f3d : object(family3 diagnosed)
+sts:string - status (a1 - alive, d1 - dead)
+toc:string - type of cancer
+ut:string -Undergo treatment (y/n)
+wd:string - When diagnosed
+fss (Female specific symptoms)
+ tlb: string (A thickening / lump in breast or elsewhere)
+ bdn:string (bleeding/discharge from nipple)
+ ipmb:string (irregular/postmenstrual bleeding)
+ uwd:string (Unusal white discharge)
Values : tr , fl
+gvd: string(Gravida)
+hdqh : string (2-3 days - tttdays,1 week - owk,1 month - omnth,2-6 months - tsmnths)
(how_many_days_did_you_quit_the_habit)
+hlca : string (less than 1 year - lt1yrs,1-5 years - ofyrs,6-10 years - sttyrs,11-20 years - ettyrs,>20 years
- gt20yrs) (how long did you consume alcohol)
+hlqh : string (less than 1 year - lt1yrs,1-5 years - ofyrs,6-10 years - sttyrs,11-20 years - ettyrs,>20 years
- gt20yrs) (how_long_has_it_been_since_you_quit)
+ht_p:string (Hypertension present) (tr , fl)
+hystrtm : string (y/n)
+hystrtm_rsn : string
Values : prolapsed uterus - pu,excessive bleeding -eb,excessive white dischage - ewd,post coital
bleeding - pcb,ovarian cysts -ocyst,other issues - oiss
+k_c_o
+cval : string
+dval : string
+htval : string
Values : on treatment, not treated, currently not on treatment, completed treatment
+la (Lesion Array)
+index : name of the lesion (string)
Values : Upper lip,Lower lip,hard palate,soft palate,left buccal mucosa,left upper
GBS,left lower GBS,left RMT,right buccal mucosa,right upper GBS,right lower GBS,right RMT,right side
of tongue,left side of tongue,floor of the mouth,generalize
+lmp:string (Last menstrual period)
+lvng:string(Living)
+mens: string (reg/irr) (Menstruation : Regular/Irrregular)
+misw : string (Menstruation irregular since when)
+ms : string (Menstruation Stage)
Values : Premenopausal - prem, Perimenopausal - perm,Post menopausal - pom,Post hysterectomy
- phys

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+mthd : string (what was the method you adopted?)
 Values : Substitution - subs, Self control - slfctrl

+nfmdc : string (how many ?) (1,2,3 or more)

+oc : string (Other comments)

+oh : String (Oral Hygiene)
 Values : good,fair,poor

+om (Oral Mucosa)
 +dom : string (difficulty in opening the mouth)
 +grwth : string (growth)
 +na : string (no abnormality)
 +rp : string (red patch)
 +se : string (smokers palate)
 +sp : string (stains and encrustations)
 +ulcr : string (ulcer)
 +utc : string (unable to classify)
 +wp : string (white patch)
 Values : tr , fl

+para : string (para)
 +pht_arr (lesion photo array)
 +index : photo url (String)

+qth : string (long_has_it_been_since_you_quit_the_habit)
 values : less than 1 year - lt1yrs,1-5 years - ofyrs,6-10 years - sttyrs,11-20 years - ettyrs,>20 years
 - gt20yrs)

+rcs : string (reason_for_cancer_screening)
 Values : Free camp - fcmp,Suspected symptoms - sussymp

+rtqh : string (reason_to_quit_habit)
 Values : Was not well - wnw,Admitted to the hospital - athosp,Family member had cancer - fmc,saw some cancer patients and got scareds - scpgs,not good for health - ngfh,felt bad about my addiction - fbama

+shsm (Exposure to second hand smoke)
 +ath : string (at home)
 +atw : string (at place of work)
 +inpb : string (in public)
 +none : string (none)
 Values : tr, fl

+spp : string (y,n,absnt) (can cancer spread from one person to another?)
 +tcc : string (y,n, absnt) (do you think tobacco causes cancer?)
 +tif : string (y,nn,nvr,absnt) (do you currently use tobacco in any form?)
 +tmt_cc : string (y,n,absnt) (is there treatment and cure for cancer?)
 +ttc
 +ttc1 : string (ttc1 - Smoked tobacco - beedi, cigarettes)
 +ttc2 : string (ttc2 - Smokeless tobacco - ghatka, hans, pan masala, snuff)
 +ttc3 : string (ttc3 - Betel quid with tobacco (kaddipudi, hogesoppu))
 +ttc4 : string (ttc4 - Betel quid without tobacco)
 +ttc5 : string (ttc5 - Other)

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+tcc_val

- +bqt : string (Betel quid with tobacco (kaddipudi, hogesoppu))
- +bqwot : string (Betel quid without tobacco)
- +othr : string (other)
- +stbc : string (Smoked tobacco - beedi, cigarettes)
- +stghpm : string (Smokeless tobacco - ghatka, hans, pan masala, snuff)

Values : less then 5,five to ten,eleven to twenty,greater then twenty

- +uacstb : string (y/n) (undergone_any_cancer_screening_tests_before)
- +wcsrd : string (Less than a year - ltay,1-3 years - ot3yrs,more than 3 years - mt3yrs)

(when_cancer_screening_was_screening_done)

- +ws_ca: string (y/n/absnt) (are you aware of the symptoms / warning signs of cancer?)
- +wsoc
 - +amogwth:string(Any mass or growth in the body)
 - +amole:string (A mole or blemish or wart that enlarges change in color ,bleeds or itches)
 - +bsm:string(black sticky motion)
 - +bus:string(blood in urine or stools)
 - +cbs: string (Cough up bloody sputum)
 - +fbf: string (Frequent change in bowel and bladed habits)
 - +pcohv: string (persistent cough or hoarseness of voice)
 - +pds: string (persistent difficulty in swallowing)
 - +rwl:string (rapid weightloss without apparent cause)
 - +ufw:string(a scab,sore or ulcer that fails to heal in three weeks)
 - +ub: string Unusual bleeding/discharge from genitalurinary or digestive tract)

Values : tr , fl

- +yoh : string (for how many years have you had the habbit?)

Values : Less than a year - ltay, 1-5 years - otfyrs, 6-10 years - sttyrs,11-20 years - ettyrs,20-40 years - tt40,>40 years - gt40

- **patients1 and profile_history**

- +pid/vid/uid/
 - +addr : string (patient address)
 - +age : string (Age)
 - +alt_ctc_no : string (alternate contact number)
 - +ctc_no : string (contact number)
 - +edu : string (Education)

Values : No schooling - No_sch,upto 5th Standard - upto_5th,upto 7th Standard-upto_7th,SSLC-sslc,PUC-puc,Diploma-dip,Graduation-grad,Post graduation-postgrad

- +f_name : string (father name)
- +m_name : string (mother name)
- +fam_inc : string (Estimated annual family income)

Values : less than INR 1,25,000-lt12500,between INR 1,25,000 to INR 5,00,000-btw12500to50k,between INR 5,00,000 to INR 30,00,000-btw50kto31,More than INR 30,00,000-gt31)

- +formfilled : string (form filled)
- +fw_id : string (Field worker id)
- +gndr : String (m - male,f - female) (gender)

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+hbts : String (habbits)
+ht : String (height)
+idprfype : String (ID proof type)
Values : Aadhar-aadhr,Ration card-rtc,Voters ID-votid,Not available-na
+idprfno : string (ID proof number)
+lstscr : String (Last screening date)
+mode : String (mode)
+ms : String (marital status)
Values : Single-sng,Married-mrd,Widow-wdw,Widower-wdwr,Divorced-dvcd
+name : string (name)
+next_screening : string (next screening date)
+no_fam : String (Number of family members)
+occgrp : String (Occupation Group - according to NCO 2015)
Values : Legislators, Senior Officials and Managers - Group 1 - grp1,Professionals - Group 2 - grp2,Technicians and associate professionals - Group 3 - grp3,Clerks/Clerical support workers - Group 4 - grp4,Service and sales workers - Group 5 - grp5,Skilled agricultural, forestry and fishery workers - Group 6 - grp6,Craft and related trader workers - Group 7 - grp7,Plant and machine operators and assemblers - Group 8 - grp8,Elementary occupations - Group 9 - grp9,Workers not classified by Occupations - Group 10 - wkntclsby
+pcft_n : string (Panchayat name)
+pid : string (Patient id)
+pp_url : string (Profile picture url)
+rg_dt : string (registration date)
+rlg : String (Religion)
Values: Hindu - Hndu,Christian - Chrst,Buddhist - budst,Muslim - muslm
+sts : string (ip - inperson, absnt - absent) (Status)
+uid : string (uid)
+uname : string (username)
+vname : stirng (Village name)
+vstatus : string (Viewed status)
+wt : string (Weight)

- **Form_3**

- +pid/vid/uuid/timestamp

- +abn_det (Breast abnormality detected)
- +abn_lb (abnormality left breast)
 - +ilq: boolean (inner_lower_quadrant)
 - +iuq: boolean (inner_upper_quadrant)
 - +olq: boolean (outer_lower_quadrant)
 - +ouq: boolean (outer_upper_quadrant)
- +abn_rb (abnormality right breast)
 - +ilq: boolean (inner_lower_quadrant)
 - +iuq: boolean (inner_upper_quadrant)
 - +olq: boolean (outer_lower_quadrant)
 - +ouq: boolean (outer_upper_quadrant)

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+adv_mgphy: string (y/n/other) (advised bilateral screening breast mammography/ultrasound)
 +adv_mgphy_val: string (advised bilateral screening breast mammography/ultrasound->others value)
 +bpa: (Breast photo array)
 +index : string (photo url)
 +brst_exm
 +l_b
 +a_n_p : Boolean (axillary_Nodes_palpable)
 +f_m_l : Boolean (freely_Mobile_Lump)
 +f_s_l : Boolean (fixed_Suspicious_Lump)
 +n_d : Boolean (nipple_Discharge)
 +nml : Boolean (normal)
 +thkng : Boolean (thickening)
 +r_b
 +a_n_p : Boolean (axillary_Nodes_palpable)
 +f_m_l : Boolean (freely_Mobile_Lump)
 +f_s_l : Boolean (fixed_Suspicious_Lump)
 +n_d : Boolean (nipple_Discharge)
 +nml : Boolean (normal)
 +thkng : Boolean (thickening)
 +cpa: (Cervix photo array)
 +index : string (photo url)
 +dr_name: string (doctor name)
 +elp (Erythroleukoplakia)
 +avl: (anterior_vestibule_lower)
 +avu: (anterior_vestibule_upper)
 +fm: (floor_of_the_mouth)
 +hp: (hard_palate)
 +lbt: (left_buccal_mucosa)
 +lbtl: (lateral_border_of_tongue_left)
 +lbtr: (lateral_border_of_tongue_right)
 +llgb: (lower_left_GBS)
 +llm: (lower_labial_mucosa)
 +lrgb: (lower_right_GBS)
 +rbm: (right_buccal_mucosa)
 +rmt: (retro_molar_trigone)
 +sp: (soft_palate)
 +ulgbs: (upper_left_GBS)
 +ulm: (upper_labial_mucosa)
 +urgb: (upper_right_GBS)

Values : less than 2 cm diameter, 2-4 cm diameter, more than 4 cm diameter, diffused

+ep (Ethroplakia)
 +avl: (anterior_vestibule_lower)
 +avu: (anterior_vestibule_upper)
 +fm: (floor_of_the_mouth)

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+hp: (hard_palate)
 +lbt: (left_buccal_mucosa)
 +lbtl: (lateral_border_of_tongue_left)
 +lbtr: (lateral_border_of_tongue_right)
 +llgb: (lower_left_GBS)
 +llm: (lower_labial_mucosa)
 +lrgb: (lower_right_GBS)
 +rbm: (right_buccal_mucosa)
 +rmt: (retro_molar_trigone)
 +sp: (soft_palate)
 +ulgbs: (upper_left_GBS)
 +ulm: (upper_labial_mucosa)
 +urgb: (upper_right_GBS)

Values : less than 2 cm diameter, 2-4 cm diameter, more than 4 cm diameter, diffused

+fnac_dn_in: string (y/n/other) (fnac_done_when_indicated)
 +fnac_dne: string (fnac_done_other_text_value)
 +fnuds (findings)
 +elp: boolean (erythroleukoplakia)
 +ep: boolean (erythroplakia)
 +gwth: boolean (growth)
 +hl: boolean (homogenous_Leukoplakia)
 +lp: boolean (lichen_Planus)
 +nad: boolean (nad)
 +ncknde: boolean (neck_Nodes)
 +nhl: boolean (non_homogenous_leukoplakia)
 +sf: boolean (submucous_Fibrosis)
 +sp: boolean (smokers_Palate)
 +su: false (suspicious_ulcer)
 +gpa (Oral photo array)
 index : string (photo url)
 +hl (Homogenous leukoplakia)
 +avl: (anterior_vestibule_lower)
 +avu: (anterior_vestibule_upper)
 +fm: (floor_of_the_mouth)
 +hp: (hard_palate)
 +lbt: (left_buccal_mucosa)
 +lbtl: (lateral_border_of_tongue_left)
 +lbtr: (lateral_border_of_tongue_right)
 +llgb: (lower_left_GBS)
 +llm: (lower_labial_mucosa)
 +lrgb: (lower_right_GBS)
 +rbm: (right_buccal_mucosa)
 +rmt: (retro_molar_trigone)
 +sp: (soft_palate)
 +ulgbs: (upper_left_GBS)

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+ulm: (upper_labial_mucosa)

+urgbs: (upper_right_GBS)

Values : less than 2 cm diameter,2-4 cm diameter,more than 4 cm diameter,diffused

+infrmn (information)

+irrm: boolean (irregular_menstruation)

+phs: boolean (post_hysterectomy_status)

+uce: boolean (under_menstruation)

+um: boolean (unwilling_for_cervical_examination)

+wdpv: boolean (wdpv)

+lpa: string (Excision - exsn, Ablation - abln, na) (laser_procedure ADVISED),
+lpp (lichen_planus_present)

+alp: string (atrophic_LP)

+blp: string (bulloous_LP)

+elp: string (erosive_LP)

+plp: string (papular_LP)

+plqp: string (plaque_LP)

+rlp: string (reticular_LP)

Values :left buccal mucosa,right buccal mucosa

+nd (nipple_discharge)

+bs: boolean (blood_stained)

+grm: boolean (grumous)

+md: boolean (multiple_Duct)

+sd: boolean (single_Duct)

+serous: boolean (serous)

+ndstwi: string (nipple_discharge_smear_taken_when_indicated),

+nhl (non_homogenous_leukoplakia)

+avl: (anterior_vestibule_lower)

+avu: (anterior_vestibule_upper)

+fm: (floor_of_the_mouth)

+hp: (hard_palate)

+lbtm: (left_buccal_mucosa)

+lblt: (lateral_border_of_tongue_left)

+lbtr: (lateral_border_of_tongue_right)

+llgbs: (lower_left_GBS)

+llm: (lower_labial_mucosa)

+lrgbs: (lower_right_GBS)

+rbm: (right_buccal_mucosa)

+rmt: (retro_molar_trigone)

+sp: (soft_palate)

+ulgbs: (upper_left_GBS)

+ulm: (upper_labial_mucosa)

+urgbs: (upper_right_GBS)

Values : less than 2 cm diameter,2-4 cm diameter,more than 4 cm diameter,diffused

+nnl: string (neck_Nodes_Level)

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+nsd: string (next_screening_Date)
+nsov: string (nipple_smear_othertext_value)
+osmf (Submucous fibrosis)
+a_gloss: boolean (atrophic_glossitis)
+blchng: boolean (blanching:)
+bm: boolean (burning_mouth)
+pfb: boolean (palpable_fibrous_bands)
+rmo: boolean (restricted_mouth_opening)
+rtm: boolean (restricted_tongue_movement)
+sv: boolean (shrunken_uvula)
+othr_cmnts: string (other_comments)
+pbt: string (punch_biopsy_taken_indicated)
Values : Yes and willing - yaw, Yes and unwilling - yauw, na
+perspec (Per Speculum)
+bdp: boolean (Bloody discharge present)
+epp: boolean (Endocervical polyp present)
+ersnp: boolean (Erosion present)
+grwthp: boolean (growth present)
+l.snp: boolean (lesion present)
+ncp: boolean (Nanothian cyst present)
+rft: boolean (Require further test)
+sc: boolean (Strawberry cervix)
+sfv: boolean (SCJ fully visible)
+snv: boolean (SCJ not visible)
+spv: boolean (SCJ oartically visible)
+vdly: boolean (VIA done last year)
+wdp: boolean (white discharge present)
+pnchbi: (String) (punch_biopsy_indicated)
Values : Yes and willing - yaw, Yes and unwilling - yauw, na
+pr: (Oral Lesion photos_review)
+index : string (impression)
Values : Normal,Leukoplakia,Erythroplakia,Erythroleukoplakia,Prolifarative
Verrucous Leukoplakia,Lichen planus,Oral submucous Fibrosis,Smoker's
palate,Candidiasis,Traumatic Ulcer,Suspicious Ulcer,Suspicious Growth,Not clear/visible,Wrong
site,Other
+recdn: string (Recommendation)
Values : referal to local procedure - rflp, next screening date - nsd, Recommendation to
hospital - rth, no intervention - nointryn
+recmd (Refer to local procedure - Recommendation)
+cpscy: boolean (colposcopy)
+lsr: boolean (laser)
+mghpy: boolean (mammography)
+ulsnd: boolean (Ultrasound (USG))
+refany: string (Referrals if any)
+scr_dne_for (Screening done for)
+bc: boolean (Breast cancer)

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+cc: boolean (Cervical cancer)
 +gco: boolean (General check only)
 +oc: boolean (oral cancer)
 +smkrspalate (smokers palate)
 +hp: boolean (hard_palate)
 +sp: false (soft_palate)
 +sts: string (ip - Inperson, absnt - absent) (status),
 +sugrwrth (suspicious_ulcer_present)
 +avl: (anterior_vestibule_lower)
 +avu: (anterior_vestibule_upper)
 +fm: (floor_of_the_mouth)
 +hp: (hard_palate)
 +lbtm: (left_buccal_mucosa)
 +lblt: (lateral_border_of_tongue_left)
 +lbtr: (lateral_border_of_tongue_right)
 +llgbs: (lower_left_GBS)
 +llm: (lower_labial_mucosa)
 +lrgbs: (lower_right_GBS)
 +rbm: (right_buccal_mucosa)
 +rmt: (retro_molar_trigone)
 +sp: (soft_palate)
 +ulgbs: (upper_left_GBS)
 +ulm: (upper_labial_mucosa)
 +urgbs: (upper_right_GBS)

Values : less than 2 cm diameter,2-4 cm diameter,more than 4 cm
diameter,diffused

+sus_grwth (suspicious_growth)
 +avl: (anterior_vestibule_lower)
 +avu: (anterior_vestibule_upper)
 +fm: (floor_of_the_mouth)
 +hp: (hard_palate)
 +lbtm: (left_buccal_mucosa)
 +lblt: (lateral_border_of_tongue_left)
 +lbtr: (lateral_border_of_tongue_right)
 +llgbs: (lower_left_GBS)
 +llm: (lower_labial_mucosa)
 +lrgbs: (lower_right_GBS)
 +rbm: (right_buccal_mucosa)
 +rmt: (retro_molar_trigone)
 +sp: (soft_palate)
 +ulgbs: (upper_left_GBS)
 +ulm: (upper_labial_mucosa)
 +urgbs: (upper_right_GBS)

Values : less than 2 cm diameter,2-4 cm diameter,more than 4 cm
diameter,diffused

+trtpap: string (triple_test_pap_smear)

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+tt: String (test_type = VIA)
+via: string (positive - pos, negative - neg) (VIA)
+hpt: string (Yes - y, No - n) (HPV test done)

- **camp_report**

-pchid

-vid

-tmstmp: number (date)

+ camp-photos (Camp photos)
+image_url : string
+ brrs : string (Barriers)
+clsd_hse:string (Total number of closed houses)
+detail:string (Detail of school awareness)
+detail_gp:string (Detail of group discussion)
+fcltrs : string (Facilitators)
+gp_disc : string (Any Group Discussion Held?)
+ntwi : string (Network Issues)

Values : Airtel , Jio, Both, Only at clinical, No issues)

+opn_hse:string (Total number of open houses)
+sch_aw:String (School awareness done?)
+stkldrs (Stakeholder support received)
+angwdiwrker : boolean (Anganwadi worker)
+argyakndr : boolean (Arogya Kendra)
+ashwrker : boolean (ASHA worker)
+grmnbnk : boolean (Gramin bank)
+kshisnga : boolean (Krishi Sangha)
+mhlsnga : boolean (Mahila Sangha)
+oths : boolean (other)
+othss : boolean (Specify others)
+pchmem : boolean (Panchayat member)
+scchtchr : boolean (School teachers)
+ gp_photo (group discussion photos)
+image_url
+ photo_sc_aw (school awareness photos)
+image_url

- **presurvey**

+pchid/vid/timestamp

+pre_svy_photos (Presurvey photos)

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+image url

+aw_ac_done : string comma seperated (Awareness Activity Done)

values : iwa - Invited women groups, dwg - Discussed with women groups, dks - Discussed with key stakeholders, ivh - Informed village heads / leaders, pd Posters displayed, ist Informed school teachers,o:text entered(_____)

+clsd_hse(number) (Total no of closed houses)

+cnt_ph (Important contacts and phone numbers)

+contact1

-name:string

-phno:string

+contact2

-name:string

-phno:string

+contact3

-name:string

-phno:string

+facilities : string comma separated (Facilities)

Values : Screening Room - scrrm, table & chairs - tc, Toilet & running water - trw, Big Bus Accessible - bba)

+ fw_prsnt: (Field Workers Present)

+index : fwid (String)

+opn_hse : string (Total number of houses)

+pb: string (Potential Barriers)

+rt_map: (Route Map)

+ image url

+tfm : string (Total Population female)

+tm : String (Total population male)

- **fw_fb_pnd (Field worker feed back pending)**

+pchid/vid/fw_id

+uuid : timestamp (Number)

This node gets updated as field worker captures survey form and will be visible in feedback tab in field worker login based on the timestamp

- **fm_fb_pnd (Field worker feed back pending)**

+pchid/vid/

+uuid : timestamp (Number)

This node gets updated as doctor fills clinical In-person form. As this node gets updated, if that particular uuid exists in "fw_fb_pnd" then that particular uuid will be deleted. It means a particular patient has been surveyed and has been to camp, and met the doctor.

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- **fw_fd_form (Field worker feed back form)**

+pchid/vid/uuid/timestamp
+qa : string (Were you able to understand the questions asked by our team and respond to all of them?)
+qb : string (Did you gain new information about health and cancer from the interaction with our team?)
+qc : string (Would you be willing to interact with us and provide periodic information about your health and lifestyle over the next few years?)
+qd : string (Did you have any apprehensions about interacting with the team and exchanging information about health?)
+qe : string (Would you like to receive regular information and support on improving your health?)
+qf : string (Would you be willing to receive specific counselling and support that may reduce your chance of developing cancer in the future?)
+qg : string (Do you feel more people can benefit from such interactions?)
+qh : string (Were any of the questions uncomfortable for you to discuss with our team?)
+qi : string (If yes, please specify)
+qj : string (Would you like to share any other feedback regarding the risk assessment and awareness counselling?)
+qk : string (If yes, please share your thoughts)
+ql : string (We notice that you did not attend the screening session, would you be willing to share the reason?)
+qm : string (Would you be willing to come for screening another day when you do not have work?)
+chbx
+ca : boolean (I don't feel the need for screening, I am healthy)
+cb : boolean (If I have any problem, I will go to the doctor myself)
+cc : boolean (What if you screen and tell me I have a problem?)
+cd : boolean (I don't trust screening camps as I have had or heard of bad experiences before)
+ce : boolean (Someone I know attended the screening and told me about the procedures, I do not want to get those tests done)
+cf : boolean (My family does not approve of it)
+cg : boolean (I have other health problems that you are not addressing)
+ch : boolean (I was busy with household work)
+ci : boolean (I had to go to work and could not afford to lose my income for the day)
+cj : boolean (People will think something is wrong with me or that I have cancer if I undergo screening)
+ck : boolean (I am not interested)

cj and ch is selected among the check boxes then qm is mandatory.

Values : y - yes , n - no , ns - not sure

This is a feed back form which is being filled by the field worker, where is this form is been filled against the people Confidential

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who did not visit the camp after being survey

- **follow_up**

- **uid**

- ts: number

- type: string (values – scr,tcc,tstng: value , tmt:value)
- fu_status: boolean (y/n)
- ctc_mthd: string (pc,cfm,cvr,hv)
- rst : string (wv,nwv,ns)
- rsn: string

Type diagnosis(tstng) values- clspy,mgphy,usg

Type treatment(tmt) values – lsr,vth

- **fm_fd_form (Field Manager feed back form)**

- +pid/vid/timestamp**

- +qa : +(Were you able to understand the questions asked by our team and respond to all of them?)
- +qb : +(Did you gain new information about health and cancer from the interaction with our team?)
- +qc : +(Would you be willing to interact with us and provide periodic information about your health and lifestyle over the next few years?)

- +qd : +(Did you have any apprehensions about interacting with the team and exchanging information about health?)

- +qe : +(Would you like to receive regular information and support on improving your health?)
- +qf : +(Would you be willing to receive specific counselling and support that may reduce your chance of developing cancer in the future?)

- +qg : +(Do you feel more people can benefit from such interactions?)

- +qh : +(Were any of the questions uncomfortable for you to discuss with our team?)

- +qi : +(please specify)

- Values : Yes/No/Not sure (y/n/ns)

- +qj : +(Would you like to share any other feedback regarding the risk assessment and awareness counselling?)

- Values : (Yes (y) / No (n))

- +qk : +(please share your thoughts)

- +ql : +(Did you receive adequate information about the clinical tests and screening?)

- +qm : +(Were you made to feel comfortable during the screening process?)

- +qn : +(Please specify what made you uncomfortable (this will help us improve))

- +qo : +(Are you satisfied with the screening process?)

- +qp : +(Please specify (this will help us improve))

- +qq : +(Were all your queries and concerns addressed by the clinical team?)

- +qr : +(Would you be willing to undergo periodic screening to prevent cancer and help its early detection?)

- +qs : +(Please provide the reason for your response)

- +qt : +(Would you recommend any changes to the screening process?)

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+qu : +(please specify)
+qv : +(Would you recommend this to others you know?)
+qw : +(Do you have any apprehensions or complaints about the screening processes?)
+qx : +(Please elaborate)
+qy : +(Would you like to share any other feedback regarding the screening?)
+qz : +(please share your thoughts)
+ra : +(Are you ready to receive specific counselling and support that may reduce your chance of developing cancer in the future?)
+chbx : (please choose which are the areas of counselling and support that you would to receive)
+ca : boolean (Quitting tobacco and or areca use)
+cb : boolean (Improving diet)
+cc : boolean (Reducing alcohol consumption)
+cd : boolean (Coping with stress)
+ce : boolean (Improving physical fitness through exercise)
+rq : +(Did you understand how to perform self examination?)
+rs : +(Are you willing to practice self examination)
+rt : +(Did you understand the different warning signs of cancer? Are you willing to share this information with others?)
+ru : +(Are you willing to share this information with others?)
+rc : +(Did you receive explanation about the need for counselling before and during the session?)
+rd : +(Were you comfortable in answering the questions asked by the counselling team?)
+re : +(Please specify what made you uncomfortable (this will help us improve))
+rf : +(Would you be willing to receive continued, periodic support in adopting a healthy lifestyle?)
+rg : +(Please specify why)
+rh : +(Do you think having these discussions with the counsellor will help improve the quality of your life?)
+ri : +(Please specify)
+rj : +(Are you willing to make changes to your lifestyle with the help of our counsellors?)
+rk : +(Please provide the reason for your response)
Values : Yes/No/Not sure (y/n/ns)
+rl : +(Would you recommend this to others you know?)
Values : (Yes (y) / No (n))
+rm : +(Would you like to share any other feedback regarding the counselling?)
Values : (Yes (y) / No (n))
+rn : +(Please specify)
+ro : +(Would you like to share any other feedback regarding this programme?)
Values : (Yes(y)/No(n))
+rp : +(please share your thoughts)

- **fw_dr (Field Daily report - FW)**

+pid/vid/fw_id/timestamp
+mdw : String (Mention the details of work done)
+nah : Number (No. of allocated houses)
+noh : Number (No. of open houses)
+nch : Number (No. of closed houses)

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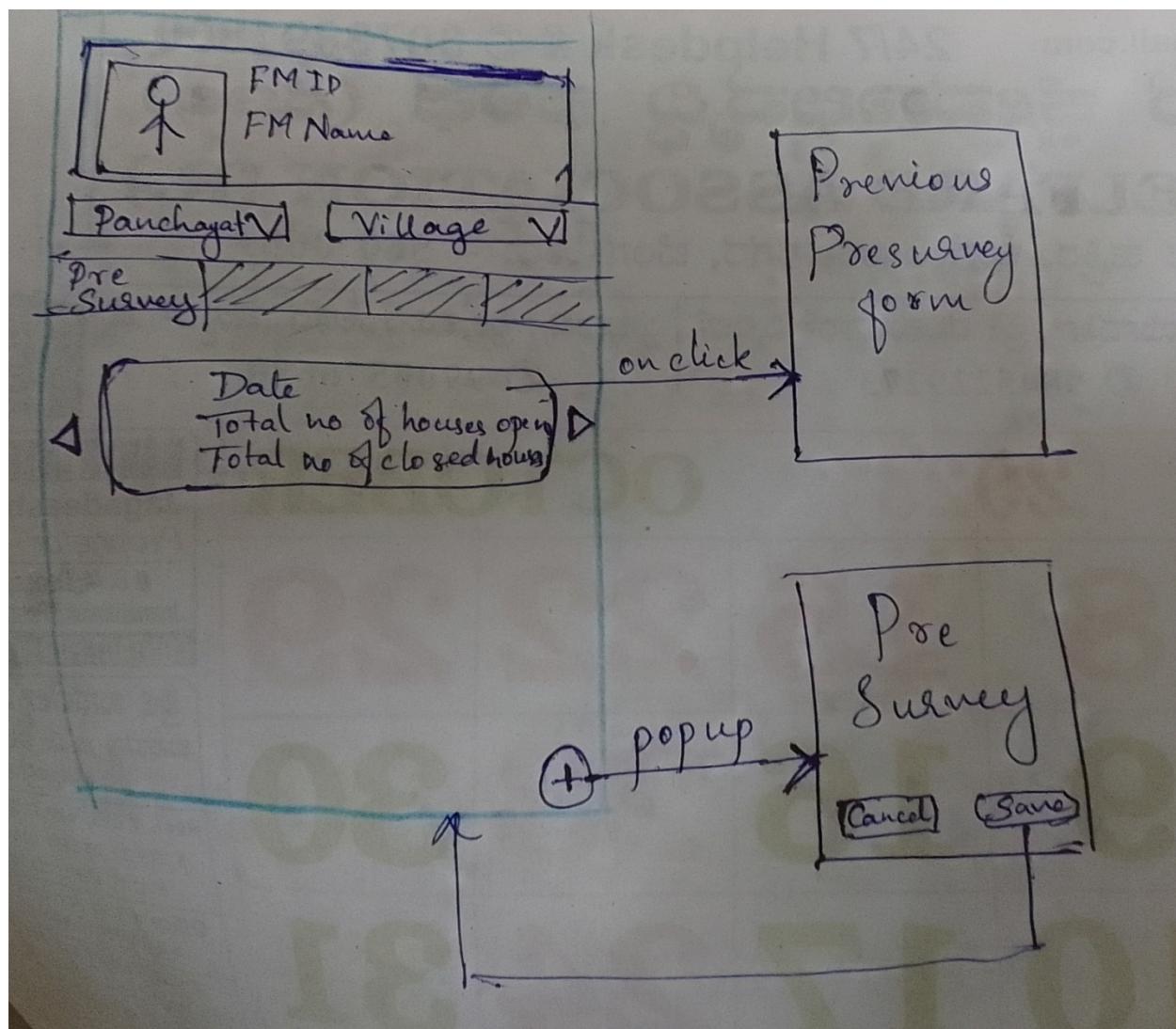
+trs : Number (Total risk assessment surveys conducted)
 +te : Number (Total no. of eligible people)
 +tps : Number (Total no. of people screened)
 +ta : Number (Total no. of absentees)
 +tr : Number (Total no. of revisits)
 +bs : String (Barriers to survey)
 +bsc : String (Barriers to screening)
 +gd : Boolean (Group discussion)
 Values : Done, Not Done
 +gdg : String (Group gender)
 Values : Male,Female,Mixed
 +gnp : String (No of participants)
 Values : less than 5 members,5 to 10 members,more than 10 members
 +td : String (Topics discussed)
 Values : Cancer incidence and risk,Importance of cancer screening,Cancer prevention,Pesticide safety
 +img_url : Array

- **fw_followup_pending**
 - **type :string (scr,tcc,tstng,tmt)**
 - uid: string
 - fwid: string
 - duedate: number
 - value:type

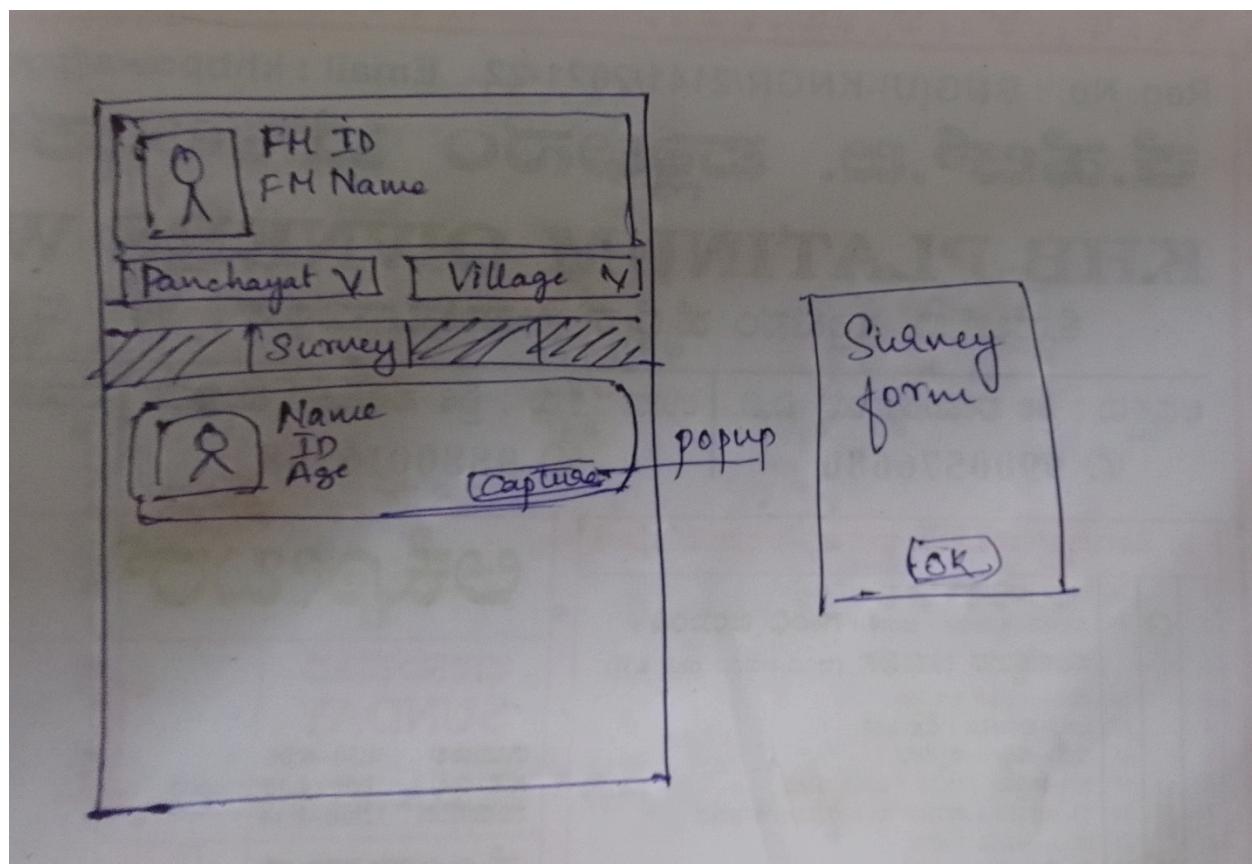
This node shall be updated when doctor updates the clinical form recommendation form will be updated, fieldworker updates the form

5.2.3.6 Database Structure:

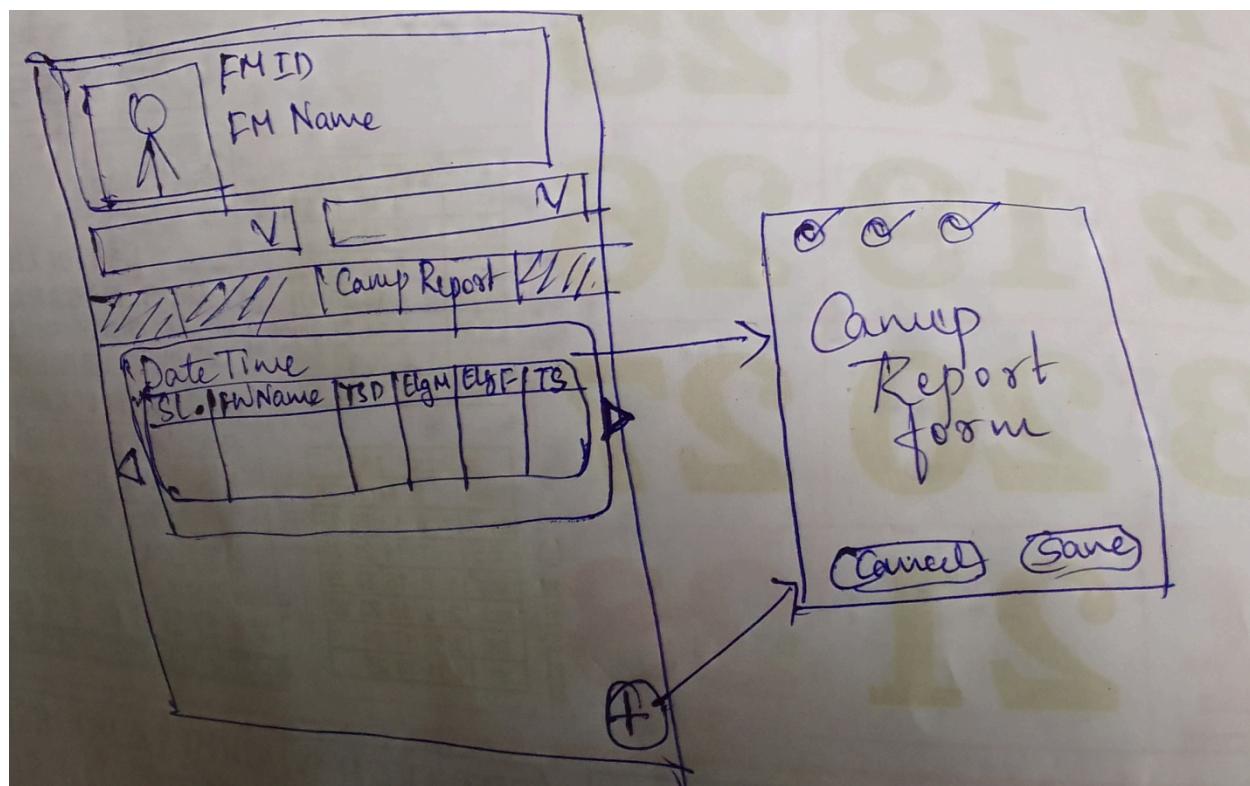
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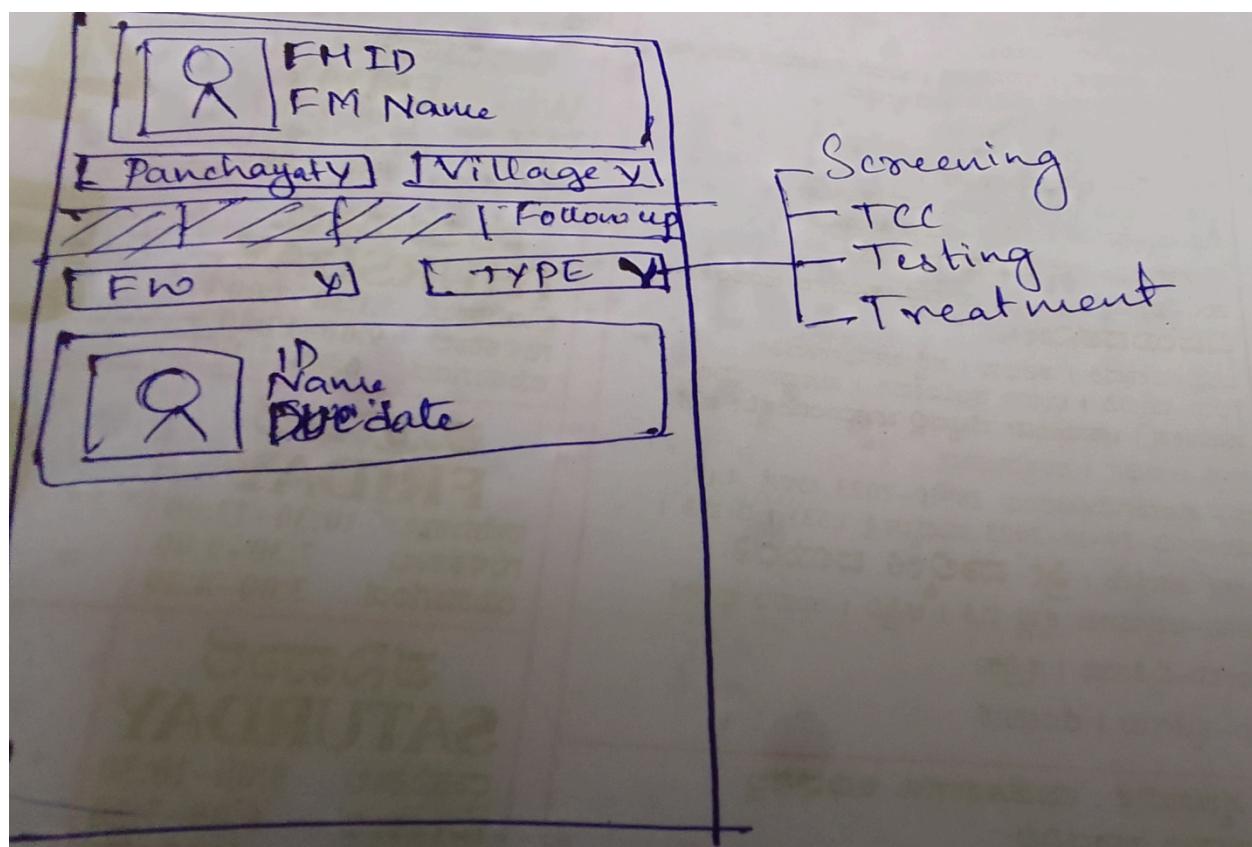
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A hand-drawn sketch of a mobile application interface for cancer care. The interface consists of two main sections:

- Top Section:** A large rectangular box containing fields for "FHID" (with a person icon), "FM Name", "Panchayat", "Village", "Follow up" (with a checkmark), "FW" (with a checkmark), and "TYPE".
- Bottom Section:** A smaller rectangular box containing fields for "ID", "Name", and "Date".

To the right of the sketch, handwritten notes define the terms:

- Screening
- FTCC
- Testing
- Treatment

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5.2.4 MedicalAssistant Module

5.2.4.1 Identification: MedicalAssistant ActivityClass

5.2.4.2 Type: Module

5.2.4.3 Purpose:

MedicalAssistant module is to update the Vitals collected from the patients manually.

5.2.4.4 Function:

Vitals shall be updated using method svasthya_snapshot_module_view(View pageView, FragmentActivity context, String ID)

5.2.4.5 Database Structure:

Nodes used:

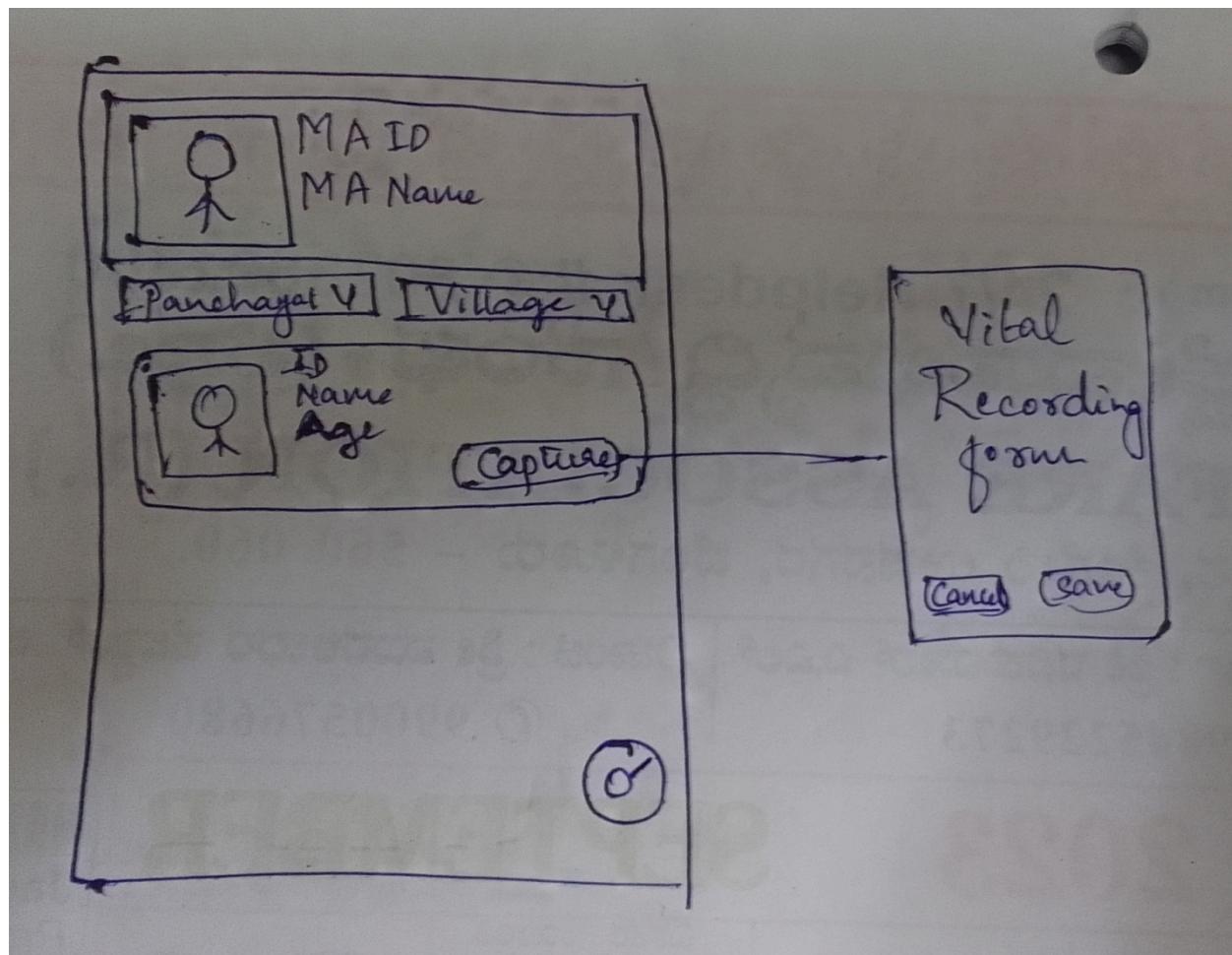
- **manual_vital_data/pid/vid/**
 - uid
 - timestamp:
 - hr : number (Pulse) bpm (beats per min)
 - spo:number (SPO2) %
 - bp:string sbp/dbp (BP)mmHg
 - grbs:number mg/dL
 - tbf (number) total body fat %
 - sbf(number) subcutaneous body fat %
 - vbf(number) visceral body fat %
 - wc (number) waist circumference in cm
 - hc (number) hip circumference in cm

- **medical_assistant**
 - uid :number
 - name:string
 - age:number

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- o addr :string
- o ma_id:string

5.2.4.6 User Interface:



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5.2.5 Doctor Module

5.2.5.1 Identification: Doctor Activity Class

5.2.5.2 Type: Module

5.2.5.3 Purpose:

Doctor module is to used to perform the screening, procedural form, clinical report and follow up. Screening shall contain Remote screening and in person screening. It is used to update the remote clinical form and in person clinical form, review the past survey forms, clinical form, tcc and clinical reports. They will able to update the procedural form, clinical report form and follow up forms based on review.

Procedure form shall be updated to database based on 3 usecases

- 1) If Sample collected is yes all fields shall be mandatory and entered to database
- 2) If Sample collected is no and type is prepopulated data to be entered under the node
- 3) If Sample collected is no and type is not selected data should be discarded

5.2.5.4 Function:

5.2.5.5 Database Structure:

Form2 - to be changed as Clinical survey form

Form3 – to be changed as Inperson survey form

- **dr_followup_pending**
 -type (prc (procedural), cr(clinical report))
 - uid:string
 - fwid: string
 - duedate: number
 - value:string
- remote_clinical_form (currently form2)
- inperson_clinical_form(currently form3)

- **procedure_form/pid/vid**
 -uid
 -timestamp
 -spmn type(obp,cbp,cgbp,ps,fnac,nd)
 -osp:string (OSP bill number)
 -rhpe:Boolean(Routine HPE)
 -obp:boolean Oral punch biopsy

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-cbp:boolean Cervical punch biopsy
 -cgbp:boolean Colposcopy guided biopsy
 -cyt (Cytology)
 -ps:Boolean(Pap Smear)
 -fnac:Boolean(FNAC)
 -nd:boolean(Nipple discharge)
 -rc
 -text:string
 -imageurl (Relevant clinical/Surgical imaging information)
 -sc:boolean
 - hpv : boolean
 -drid:string (Doctor id)
 -drname:string (doctor name)

Storage structure

```

Pchid
-vid
-uid
-type
  -proc_form
    -timestamp
    -image/pdf
-clinc_rep
  -timestamp
  -image/pdf
  
```

• biopsy_clinical_report

```

-uid
-timestamp
-osp:string (OSP bill number)
-cytlg
  -oral:Boolean (Oral cavity)
  -brst:Boolean (Cervical)
  -nple:Boolean (Nipple)
-hpthlg
  -oral:Boolean (Oral cavity)
  -brst:Boolean (Cervical)
  -nple:Boolean (Nipple)
-fndg:string (Report findings)
-cnts:string (Clinical notes)
-rrth:string (y/n) (Requires referral to hospital)
-cmts:string (Additional Comment or Notes)
  
```

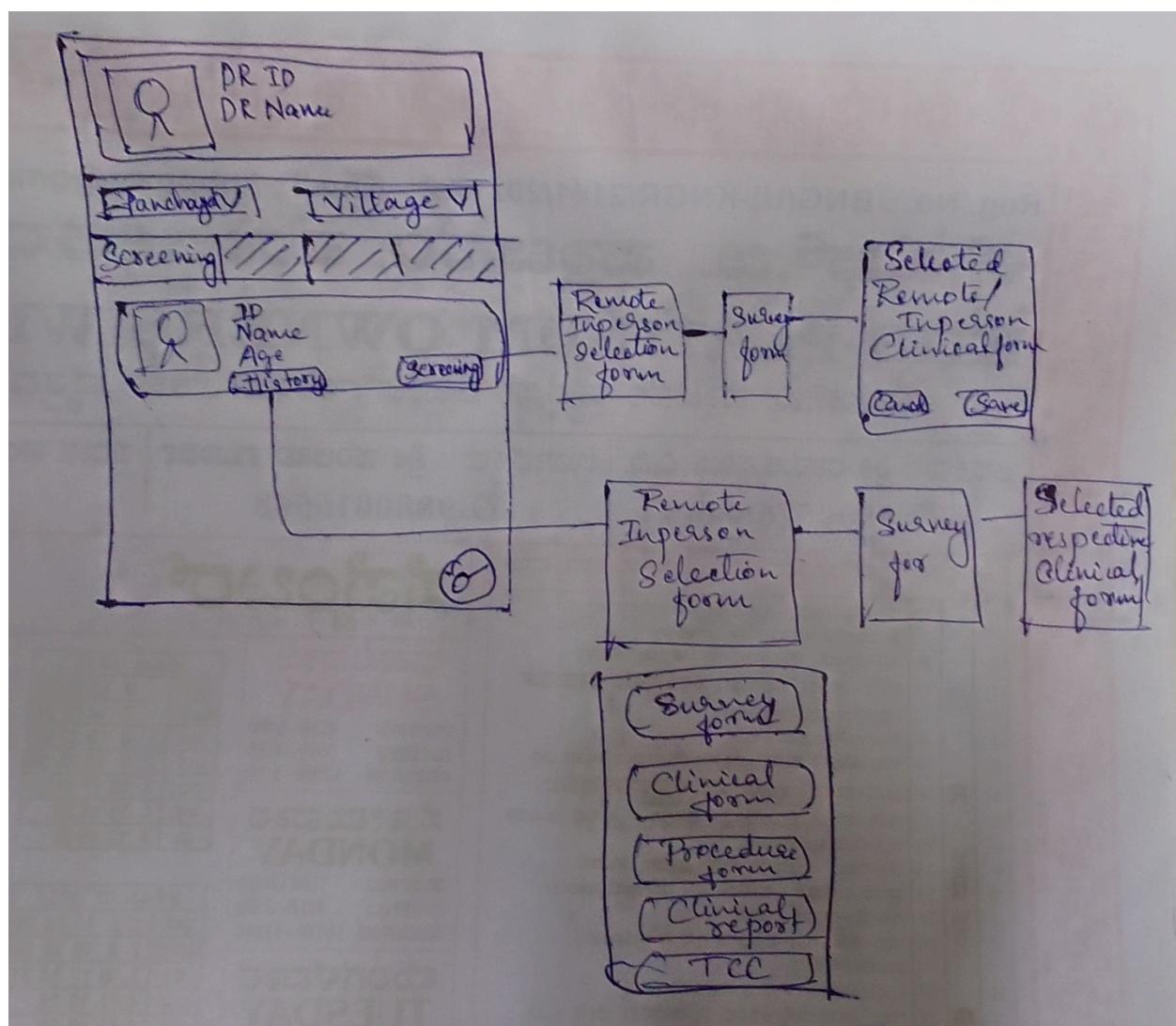
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- dcmnts:url
- **mammo_clinical_report /pid/vid**
 - uid
 - timestamp:
 - osp:string (OSP bill number)
 - fnfg:string (Clinical findings and history)
 - usg Mammography /USG taken of
 - lb:Boolean Left Breast
 - rb:boolean Right Breast
 - usgbydr:string Mammography/USG findings as reported by Dr Divya
 - rrth:string(y/n)
- **HPV_clinical_report**
 - uid
 - timestamp
 - osp:string (OSP bill number)
 - fnfg:string (Report findings)
 - cnts:string (Clinical notes)
 - rrth:string (y/n) (Requires referral to hospital)
 - cmts:string (Additional Comment or Notes)
 - dcmnts:url
- **clf_fw (Clinical Form Followup)**
 - +pid/vid/uuid
 - +due_dt : data (string)

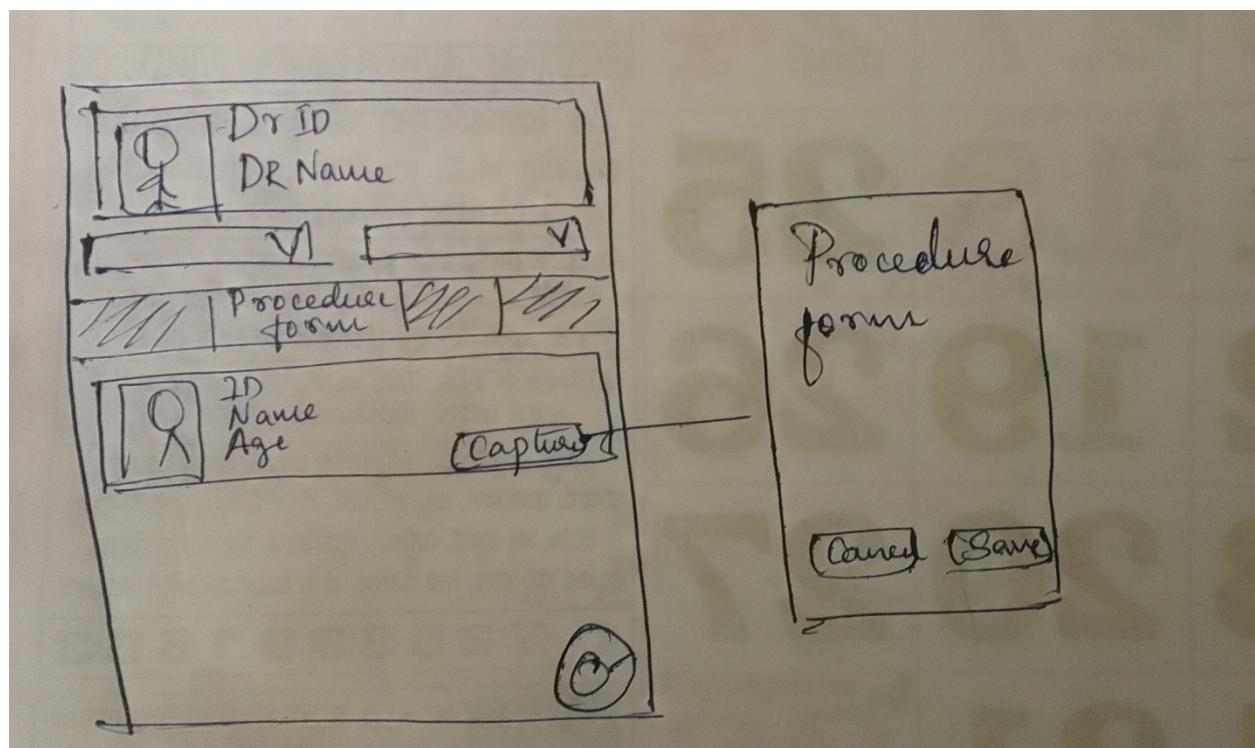
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5.2.5.6 User Interface:

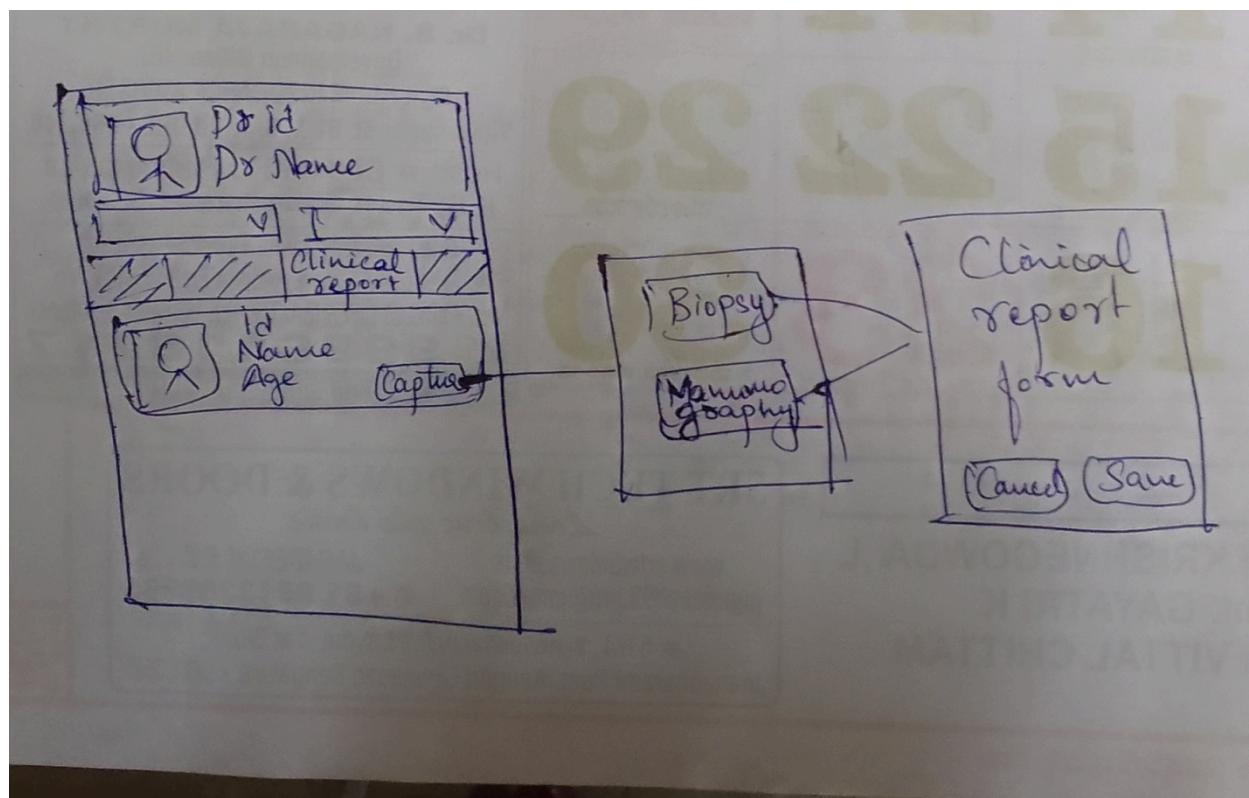
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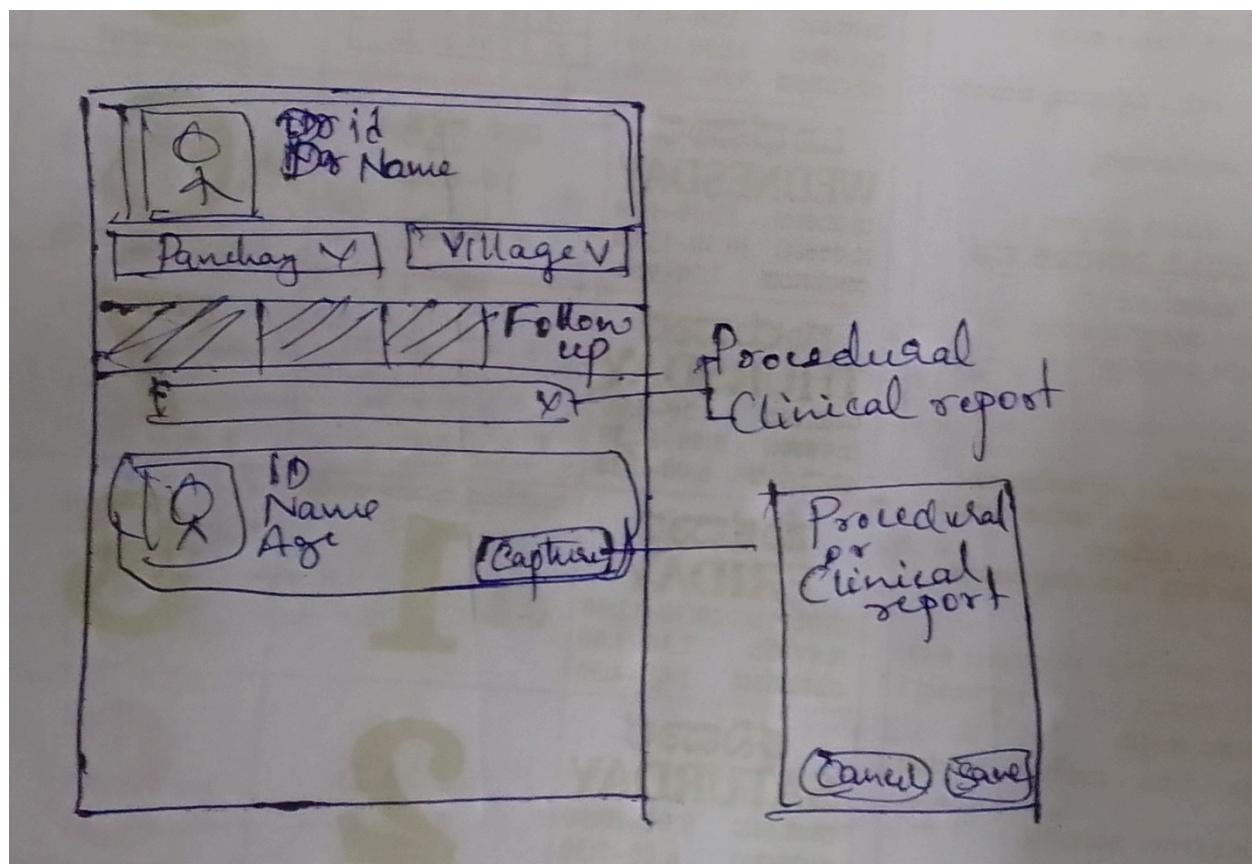
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5.2.6 Psychiatrist Module

5.2.6.1 Identification: Psychiatrist Activity Class

5.2.6.2 Type: Module

5.2.6.3 Purpose:

Psychiatrist module is to used to perform the counselling and followup.

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5.2.6.4 Function:

Psychiatrist module shall have counseling and followup tabs. Counselling tab shall contain list of patients based on village and panchayat and who has been referred for TCC. Patients shall have face to face counseling and tcc form shall be updated . psychiatrist can also view history of the tcc forms for the individual

Psychiatrist module shall use update_tcc , read_tcc methods

Followup module shall have dropdown of 1st to 7th followups . Data will be retrieved based on the followup selected

5.2.6.5 Database Structure:

- **tcc_followup_pending**

-fu_1/pid/vid

-uid

-due_dt

-fu_2/pid/vid

-uid

-due_dt

-fu_7/pid/vid

-uid

-due_dt

- **tcc_form**

- /pid/vid/uid

-timestamp

- aa: string (Education)

- ab :string (Marital status)

- ac :string (Occupation)

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- ad : number (Amount spent on tobacco per day)
 -ae:types of tobacco and frequency
 - type 1 (tobacco type) : frequency of use (string)
 - type 2 (tobacco type) : frequency of use (string)
 - type 3 (tobacco type) : frequency of use (string)
 - type 4 (tobacco type) : frequency of use (string)
 - type 5 (tobacco type) : frequency of use (string)
 -af:string (other substance used)
 -ag (Family history of)
 - tu : string (Yes/No/NKwn) (Tobacco use)
 - su : string (Yes/No/NKwn) (Substance use)
 -md : string (Yes/No/NKwn) (Mental disorder)
 -oth : string (Other)
 -age : string (Age of uptake)
 - yf : string (For how many years have you had the habit?)
 values : less than 1 year,1-5 years, 6-10 years, 11-20 years, 20-40 years, > 40 years
 -ba : string (comma separated values) (dntl (Dental issues) ,lef (Learnt from elders of family), pinf (Peer Influence) ,ws (Due to work stress), fprb (Family problems), slpissue (Sleep issues) ,bdm (Boredom) , doap (During or after pregnancy), nk (Not Known),sc (Since childhood) , oth(Others) txt: string(In case of others)
 -ca:string (a,b,c) (c.Always, a.Often, b.Occasionaly) (I smoke to keep myself alert.)
 -cb:string (a,b,c) (c.Always, a.Often, b.Occasionaly) (Smoking is pleasant and relaxing.)
 -cc:string (a,b,c) (c.Always, a.Often, b.Occasionaly) I smoke when I am upset about something.
 -cd:string (a,b,c) (c.Always, a.Often, b.Occasionaly) I smoke out of boredom.
 -ce:string (a,b,c) (c.Always, a.Often, b.Occasionaly) If I run out of cigarette/beedi, I find it unbearable.
 -cf:string (a,b,c) (c.Always, a.Often, b.Occasionaly) I smoke automatically without being aware of it.
 -cg:string (a,b,c) (c.Always, a.Often, b.Occasionaly) I smoke to perk myself up
 -ch:string (a,b,c) (c.Always, a.Often, b.Occasionaly) I find it difficult to go about with my job without smoking.
 -ci:string (a,b,c) (c.Always, a.Often, b.Occasionaly) I need to smoke in order to pass motion.
 -cj: string (a,b,c) (c.Always, a.Often, b.Occasionaly) I get real cravings for cigarette/beedi when I haven't used in a while.
 -ck:string (others)
 -da:string (d,fab,fac,e) (d. Within 5 minutes fab. 6-30 minutes fac. 31-60 minutes e. After 60 minutes) How soon after you wake up do you smoke your first cigarette?
 -db: string (y/n) Do you find it difficult to refrain from smoking in places where it is forbidden, e.g., temples, during an outing with family, during village festivities?
 -dc:string(first_one,any_other) The first one in the morning b. Any other (Which cigarette would you hate most to give up?)
 -dd:string (dda,ddb,ddc,ddd) (31 or more ,b. 21-30 ,c. 11-20 ,d. 10 or less) (How many cigarettes per day do you smoke?)

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-de:string(y/n) Do you smoke more frequently during the first hours of waking than during the rest of the day?

- df:string (y/n) (Do you smoke even if you are sick in bed?)
- ea: string (c,a,b) (Always, Often, Occasionally) I use it to keep from slowing down
- eb:string (c,a,b) (Always, Often, Occasionally) I like the texture and taste of it in my mouth.
- ec:string (c,a,b) (Always, Often, Occasionally) I find it pleasant and relaxing.
- ed:string(c,a,b) (Always, Often, Occasionally) I use it when I am upset about something.
- ee:string(c,a,b) (Always, Often, Occasionally) I chew it out of boredom
- ef:string (c,a,b) (Always, Often, Occasionally) If I run out of it, I find it unbearable.
- eg:string (c,a,b) (Always, Often, Occasionally) I believe that it provides calcium.
- eh:string (c,a,b) (Always, Often, Occasionally) I use it to perk myself up.
- ei: string (c,a,b) (Always, Often, Occasionally) It relieves pain in my jaw/teeth.
- ej:string (c,a,b) (Always, Often, Occasionally) I find it difficult to go about with my job without it.
- ek:string (Others)

-fa:string (d,fab,fac,e) (d. Within 5 minutes fab. 6-30 minutes fac. 31-60 minutes e. After 60 minutes (How soon after you wake up do you place your first dip?)

-fb:string a,b,c (a. Always fbb. Sometimes fbc. Never) How often do you intentionally swallow its juice?

-fc:string first_one,any_other (a. The first one in the morning b. Any other)Which chew would you hate most to give up?

-fd:string (fda,fdb,fdc) (a. More than 3 b. 2-3 c. 1) How many cans/pouches per week do you use?

-fe:string (y/n) (Do you chew more frequently during the first hours after waking than during the rest of the day?)

- ff:string (y/n) Do you chew even if you are sick in the bed?
- fg:string (y/n) Do you intend to quit the habit
- fh:string(y/n) Have you previously attempted to quit the habit?
- fi:string (comma separated values fi1,fi2,fi3,fi4,fi5,fi6,fi7,fi8,fi9,fi10,fi11) 1)Stress 2) Craving 3) Sleeplessness 4) Disinterest in work 5) Irritability 6) Anxiety 7)Unable to pass bowel movements 8) Boredom 9) Peer pressure 10) Headaches 11) Others) what among the following were the barriers to quit?

- fj:string (y/n) Do you often forget the intention behind quitting?
- fk:string (y/n) Did you have the right social support?
- fl:string (y/n) Are you fearful of what might happen if you quit?
- fm:string (y/n) Are you anticipating sadness when you quit?
- fn:string (y/n) Do you find it difficult to find joy/meaning in life?
- fo:string (y/n)Do you often find yourself thinking about death?
- fp:string (y/n) Do you wish to live a healthy life?
- fq:string(y/n) Do you believe that using tobacco is healthy?
- fr: string (y/n) Does anyone in the family believe your habits are unhealthy?
- fs:string (y/n) Would you agree if someone told you that use of tobacco in any form is not healthy?
- ft:string (y/n) Are you thinking of quitting the habit now?
- ga:string(y/n) Do you think that quitting takes a lot of effort?
- gb:string (y/n) Do your family support you in quitting the habit?
- gc:string(y/n) Do your friends support you in quitting the habit?
- gd: string (y/n) Would you be willing to quit if someone from the family puts in the same effort to help?

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-ge:string (y/n)Would it be helpful if the counsellor gave you a nudge every now and then?
 -gf:string (y/n)Would you need some time to think whether you want to quit or not?
 -gg:string(y/n)Do you believe you are capable of quitting?
 -gh:string (y/n)Do you believe you can quit on your own?
 -gi:string(y/n) If there were professionals to help you out would you make an effort to quit?
 -gj:string(gja/gjb)(a.Individualized b.Peer Group) Which form of professional intervention would you prefer?
 -gk:string(gka/gkb) (a.Imperson b.Telphonic) Which mode of therapy would you prefer?
 -ha: number(1-10) Dependency score for smoke tobacco
 -hb: string (hbda/hbdb/hbdc/hbdd) 1) Low dependence 2) Low to moderate dependence 3) Moderate dependence 4) High dependence (Dependency level for smoke tobacco)
 -hc:number (1-10) Dependency score for chewing habits
 -hd:number (hbda/hbdb/hbdc/hbdd) 1) Low dependence 2) Low to moderate dependence 3) Moderate dependence 4) High dependence (Dependency level for smokeless tobacco)
 -he: number (he1/he2/he3/he4/he5/he6) 1) PreContemplation 2) Contemplation 3) Action 4) Maintenance
 5) Preparation 6)Relapse - Motivation stage assessed
 -hf: string (Psychiatric Prognosis)
 -hg:string (Substance use disorder)
 -hh:number (hh1/hh2/hh3) 1) Solution Focused Brief Therapy Techniques 2) Motivation Enhancement Techniques 3) Brief advice (Behavioral Counselling Techniques used)
 -ib:string Treatment plan
 -ic: string Additional comments
 -psyname:string
 -psyid:string

- **tcc_form_followup (1st follow up)**

-uid
 -type/pid/vid/timestamp
 -aname: string (Patient Name)
 -actc_no: number (Contact Number)
 -atccdate:date (tcc_form - timestamp field)
 -arsn:string (ca,cb,cc,cd,ce,cf,cg,ch,ci,cj,ck)(Reasons for use – Smoked tobacco) (populate UI from tcc_form ca-ck)
 -adlvl:number(hb,hc,hd)(Dependency level – Smoked tobacco) (populate from UI tcc_form hb)
 -asmlrsn:string(ea,eb,ec,ed,ee,ef,eg,eh,ei,ej,ek) (Reasons for use – Smokeless tobacco) (populate UI from tcc_form ea-ek whose options)
 -asmlldlv: number(Dependency level – Smokeless tobacco) (populate UI from tcc_form hd)
 -amsa:number(Motivation stage assessed) (populate from tcc_form 8e)
 -apsyprg:string (Psychiatric Prognosis) (populate from tcc_form 8f)
 - asud:string (Substance use disorder) (populate from tcc_form 8g)
 - abetu:number (Behavioral Counselling Techniques used)(populate from tcc_form hh)
 - amse:string Mental status examination (populate from tcc_form 9a)
 - atmtp:string (Treatment plan) (populate from tcc_form 9b)

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- apnfw:string (Plan for next follow up) (populate from tcc_form 9c)
- batc:string (y/n) Able to contact?
- brnc:number(brnc1, brnc2, brnc3, brnc4, brnc5, brnc6, brnc7, brnc8, brnc9, brnc10)
- brncl : string (Reason for non contact)
- bwsth:string (y/n) Are you willing to speak about your tobacco habits?
- baqh:string (y/n) Have you attempted to quit the habit since the previous follow up?
- brsc:string (y/n) If you are unable to quit on your own, are you ready to seek counselling regularly?
- bwftf:string (y/n) Would you be willing to join us for face to face counselling?
- bwfr:string (y/n) Would you be willing to join us if your friends join as well?
- bInfrmnt :number(bInfrmnt1/bInfrmnt2/bInfrmnt3/bInfrmnt4) 1) Self 2) Son/Daughter 3) Spouse 4)

Other immediate family 5) Neighbor)

- bsts: number(bsts1/bsts2/bsts3/bsts4) 1) No change 2) Reduced use 3) Stopped use 4) Relapse
- psyname:string
- psyid:string
- ae:types of tobacco and frequency (0,<5,5-10,11-20,>20)
 - type 1 (tobacco type) : frequency of use (string)
 - type 2 (tobacco type) : frequency of use (string)
 - type 3 (tobacco type) : frequency of use (string)
 - type 4 (tobacco type) : frequency of use (string)
 - type 5 (tobacco type) : frequency of use (string)
- thd : String (Tobacco Habit details)
- adcmts : String (Additional comments)

- **tcc_form_followup (2nd - 7th follow up)**

-uid

-type/pid/vid

-timestamp

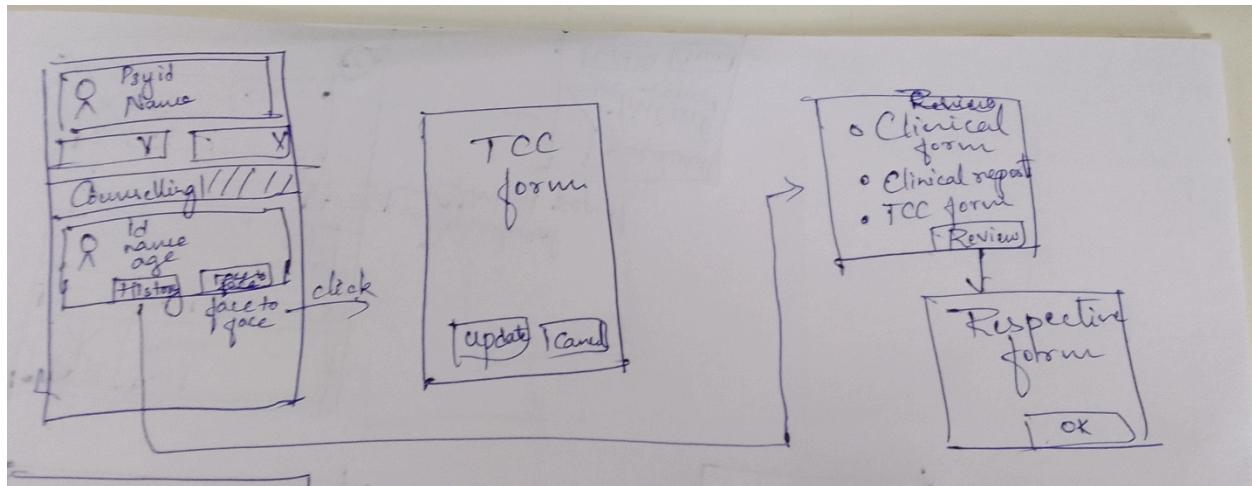
- fname: string (Patient Name)
- actc_no: number (Contact Number)
- atccdate:date (tcc_form - timestamp field)
- arsn:string (ca,cb,cc,cd,ce,cf,cg,ch,ci,cj,ck)(Reasons for use – Smoked tobacco) (populate UI from tcc_form ca-ck)
- adlvl:number(hb,hc,hd)(Dependency level – Smoked tobacco) (populate from UI tcc_form hb)
- asmlrsn:string(ea,eb,ec,ed,ee,ef,eg,eh,ei,ej,ek) (Reasons for use – Smokeless tobacco) (populate UI from tcc_form ea-ek whose options)
 - asmldlvl:number(Dependency level – Smokeless tobacco) (populate UI from tcc_form hd)
 - amsa:number(Motivation stage assessed) (populate from tcc_form 8e)
 - apsyprg:string (Psychiatric Prognosis) (populate from tcc_form 8f)
 - asud:string (Substance use disorder) (populate from tcc_form 8g)
 - abctu:number (Behavioral Counselling Techniques used)(populate from tcc_form hh)
 - amse:string Mental status examination (populate from tcc_form 9a)
 - atmtp:string (Treatment plan) (populate from tcc_form 9b)

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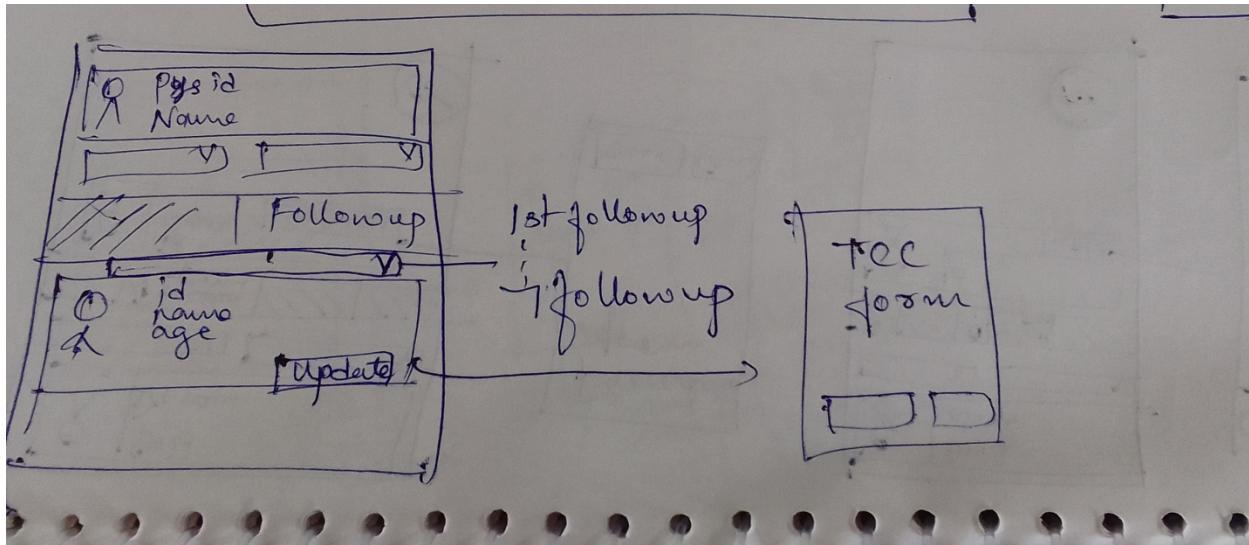
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- fpnfu:string Additional comments (if any)
- psyname:string
- psyid:string
- ae:types of tobacco and frequency (0,<5,5-10,11-20,>20)
 - type 1 (tobacco type) : frequency of use (string)
 - type 2 (tobacco type) : frequency of use (string)
 - type 3 (tobacco type) : frequency of use (string)
 - type 4 (tobacco type) : frequency of use (string)
 - type 5 (tobacco type) : frequency of use (string)
- thd : String (Tobacco Habit details)
- drnc : string (y/n) Do you remember the negative impact tobacco has on your health?

5.2.6.6 User Interface:



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*Note that search icon to be present in the dashboard in case it is missing

5.2.7 Data Entry Module

5.2.7.1 Identification: DataEntry Activity Class

5.2.7.2 Type: Module

5.2.7.3 Purpose:

Data entry module is to be used to perform the data entry in hospital manually

5.2.7.4 Function:

Data entry module shall have Vital record entry and clinical form entry and tcc form entry tabs. Vital record tab shall contain patient list in the panchayat and village selected.

Selecting the patient shall open the vital recording form. Clinical form entry tab shall also contain the list of patients, select the patient and enter clinical form shall be entered, tcc tab also contain list of patients upon selection tcc form shall be updated for particular patient.

5.2.7.5 Database Structure:

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Nodes used:

- **manual_vital_data /pid/vid**

-timestamp:

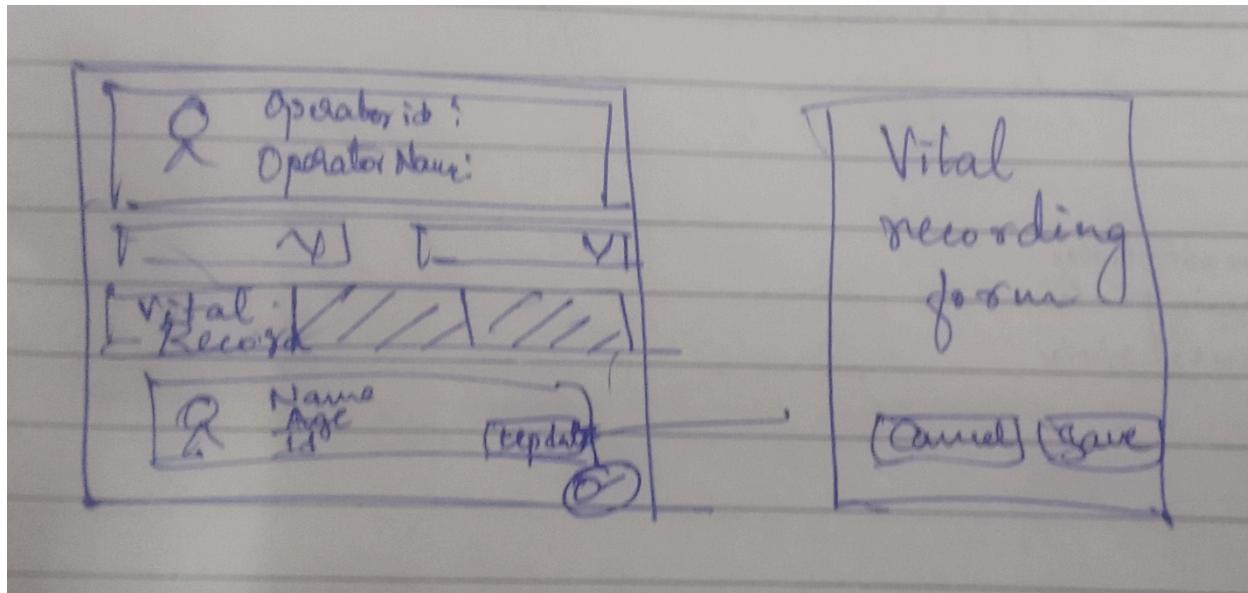
- uid

-hr : number (Pulse) bpm (beats per min)
 -spo:number (SPO2) %
 -bp:string sbp/dbp (BP)mmHg
 -grbs:number mg/dL
 - tbf (number)
 - sbf(number)
 -vbf(number)
 - wc (number)
 - hc (number)

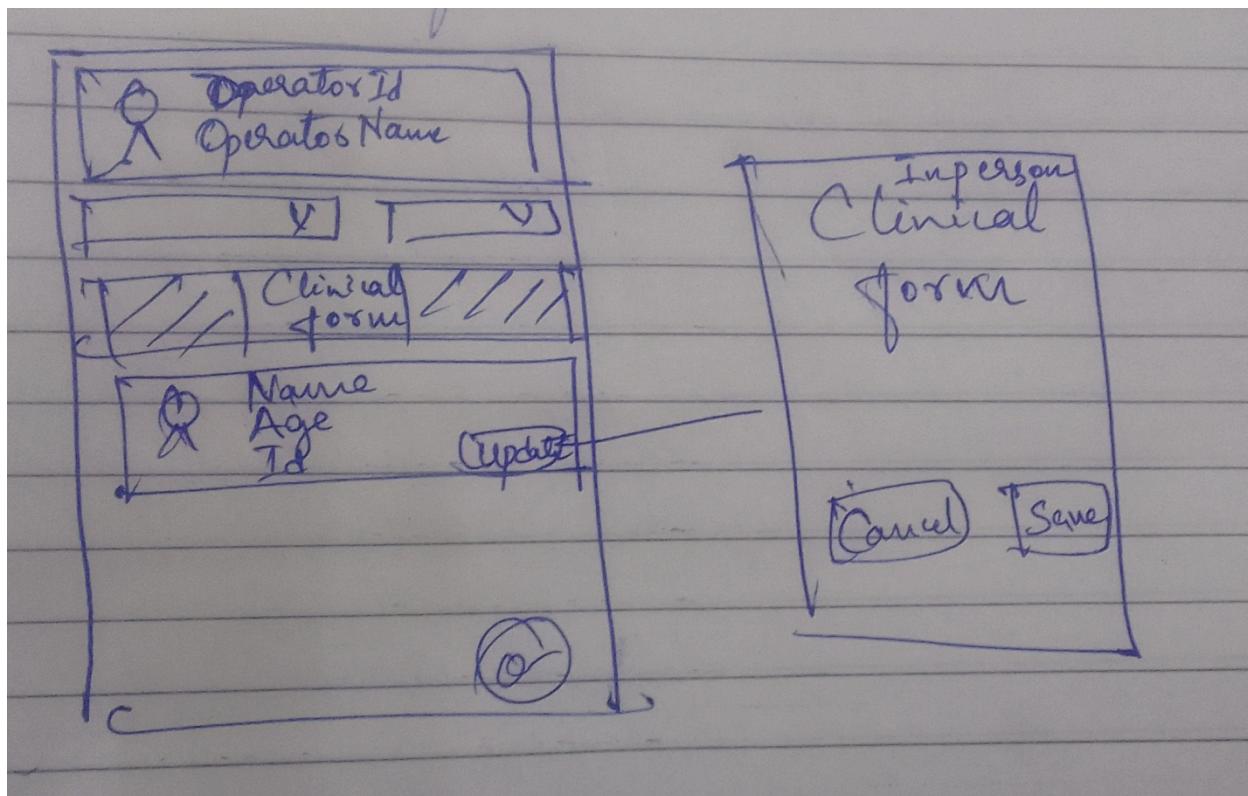
- **tcc_form/pid/vid**
 - uid
 - fields
- **remote_clinical_form** (currently form2)
- **inperson_clinical_form**(currently form3)

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5.2.7.6 User Interface:

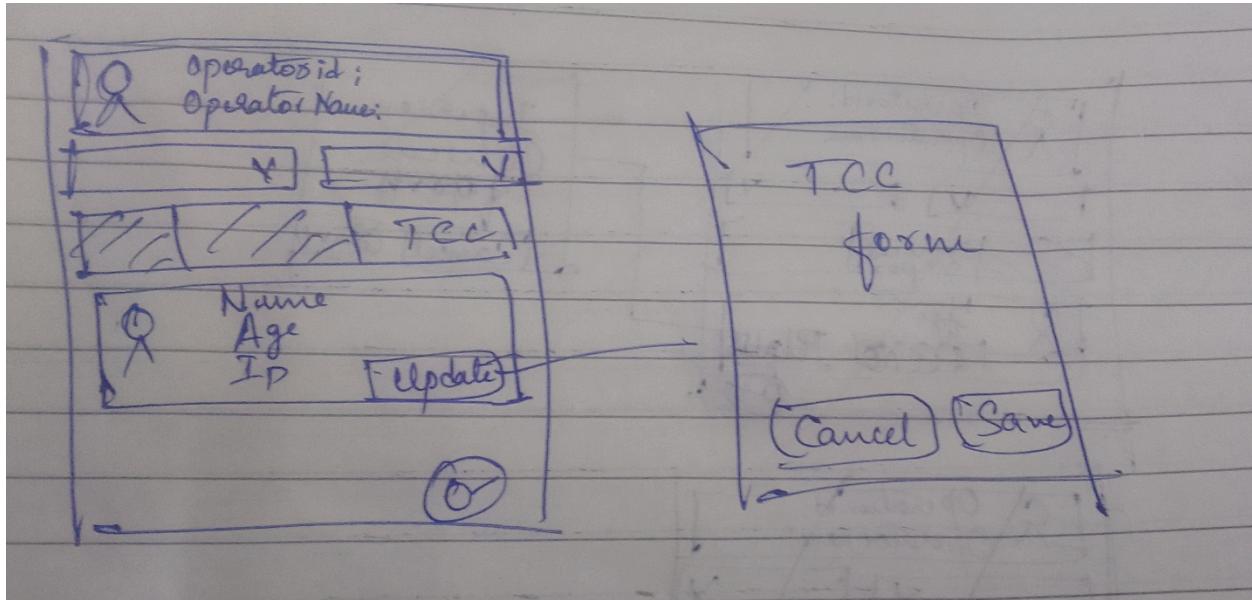


A hand-drawn diagram illustrating a user interface for a "Vital recording form". The interface consists of two main sections. On the left, there is a large rectangular frame containing fields for "Operator id" (with a person icon), "Operator Name", and "Vital Record" (with a grid icon). Below these fields are input boxes for "Name" and "Age", along with an "Update" button and a circular icon. On the right, a separate rectangular frame is labeled "Vital recording form" and contains "Cancel" and "Save" buttons.



A hand-drawn diagram illustrating a user interface for an "Impersonal Clinical form". This interface also features a large rectangular frame on the left. It includes fields for "Operator id" (person icon), "Operator Name", and "Clinical form" (grid icon). Below these are input fields for "Name", "Age", and "Id", accompanied by an "Update" button and a circular icon. To the right, a separate rectangular frame is labeled "Impersonal Clinical form" and contains "Cancel" and "Save" buttons.

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*Note that search icon to be present in the dashboard in case it is missing

5.2.8 Operational Head and Director Module

5.2.8.1 Identification: Operational Head and Director Activity Class

5.2.8.2 Type: Module

5.2.8.3 Purpose:

Operational head module is to be used to view the presurvey, health records and camp report

5.2.8.4 Function:

Operational head module shall have presurvey, health records and camp report tabs.

read_presurvey(panchayat/villageid) shall be called for reading the presurvey form of particular patient .

read_procedure_form(context, uid) shall be called to read the procedural form of particular patient

read_clinical_form(context,uid) shall be called to read the clinical form of particular patient

read_clinical_report(context,uid) shall be called to read the clinical report of particular patient

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read_camp_report(panchayat/villageid) shall be called for reading the camp report of particular camp.

read_tcc(context,uid) shall be called for reading the tcc of paticular patient.

5.2.8.5 Database Structure:

- presurvey

+pchid/vid/timestamp

+pre_svy_photos :

+image url

+aw_ac_done : string comma seperated (Awareness Activity Done

values : iwa - Invited women groups, dwg - Discussed with women groups, dks - Discussed with key stakeholders, ivh - Informed village heads / leaders, pd Posters displayed, ist Informed school teachers,o:text entered(_____)

+clsd_hse(number) (Total no of closed houses)

+cnt_ph (Important contacts and phone numbers)

+contact1

-name:string

-phno:string

+contact2

-name:string

-phno:string

+contact3

-name:string

-phno:string

+facilities : string comma separated (Facilities

Values : Screening Room - scrrm, table & chairs - tc, Toilet & running water - trw, Big Bus Accessible - bba)

+ fw_prsnt: (Field Workers Present)

+index : fwid (String)

+opn_hse : string (Total number of houses)

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+pb: string (Potential Barriers)
+rt_map: (Route Map)
+ image url
+tfm : string (Total Population female)
+tm : String (Total population male)

- **follow_up**

- **uid**

- **ts: number**
 - **type: string (values – scr,tcc,tstng: value , tmt:value)**
 - **fu_status: boolean (y/n)**
 - **ctc_mthd: string (pc,cfm,cvr,hv)**
 - **rst : string (wv,nwv,ns)**
 - **rsn: string**

Type diagnosis(tstng) values- clspy,mgphy,usg

Type treatment(tmt) values – lsr,vth

- **remote_clinical_form** (currently form2)
- **inperson_clinical_form**(currently form3)
- **procedure_form**
 - uid
 - spmn type(obp,cbp,cgbp,ps,fnac,nd)
 - timestamp
 - osp:string (OSP bill number)
 - rhpe:Boolean(Routine HPE)
 - obp:boolean Oral punch biopsy
 - cbp:boolean Cervical punch biopsy
 - cgbp:boolean Colposcopy guided biopsy
 - cyt (Cytology)
 - ps:Boolean(Pap Smear)

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-fnac:Boolean(FNAC)

-nd:boolean(Nipple discharge)

-rc

-text:string

-imageurl (Relevant clinical/Surgical imaging information)

-sc:boolean

-drid:string (Doctor id)

-drname:string (doctor name)

- biopsy_clinical_report

-

-uid

-timestamp

-osp:string (OSP bill number)

-cytulg

-oral:Boolean (Oral cavity)

-brst:Boolean (Breast)

-nple:Boolean (Nipple)

-hpthlg

-oral:Boolean (Oral cavity)

-brst:Boolean (Breast)

-nple:Boolean (Nipple)

-fndg:string (Report findings)

-cnts:string (Clinical notes)

-rrth:string (y/n) (Requires referral to hospital)

-cmts:string (Additional Comment or Notes)

-dcmnts:url

- mammo_clinical_report

-uid

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-timestamp:

-osp:string (OSP bill number)

-fndg:string (Clinical findings and history)

-usg Mammography /USG taken of

-lb:Boolean Left Breast

-rb:boolean Right Breast

-usgbydr:string Mammography/USG findings as reported by Dr Divya

-rrth:string(y/n)

- op_head

-uid: string (UUID)

-name:string (Operational head or director name)

-age:number

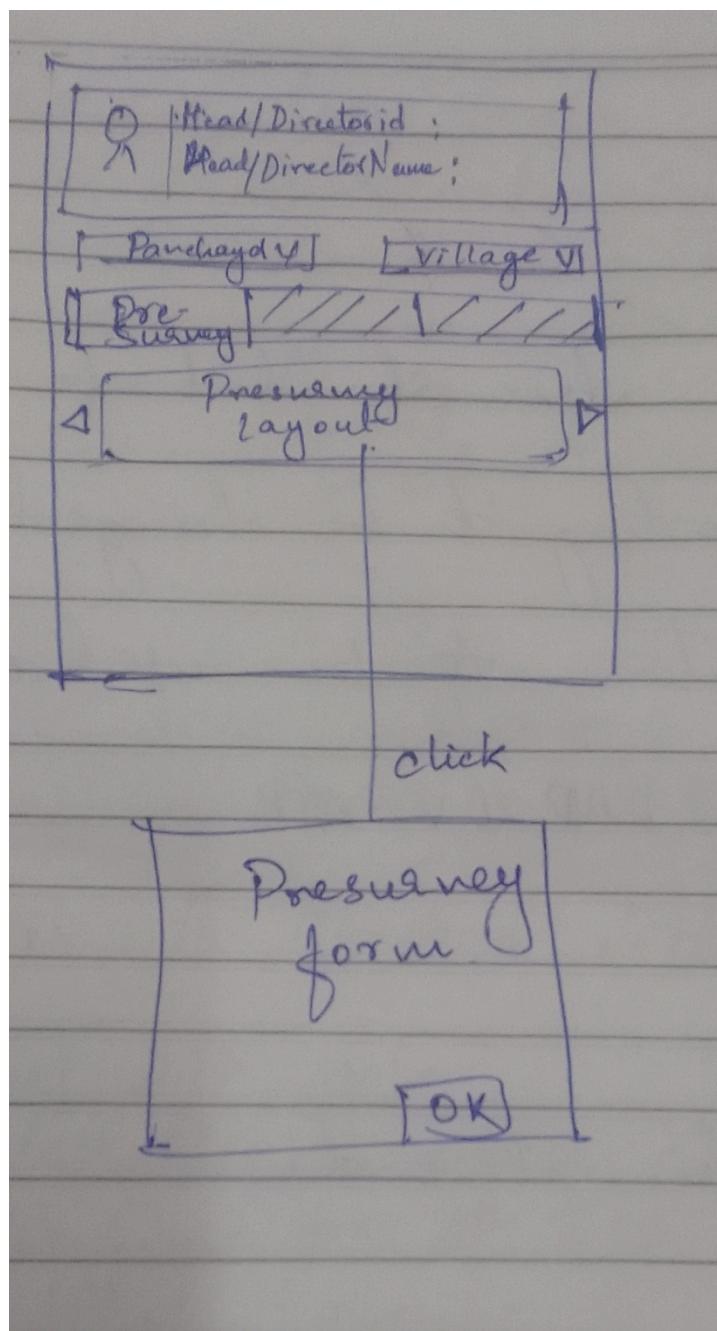
-opid:string

-addr:string

5.2.8.6

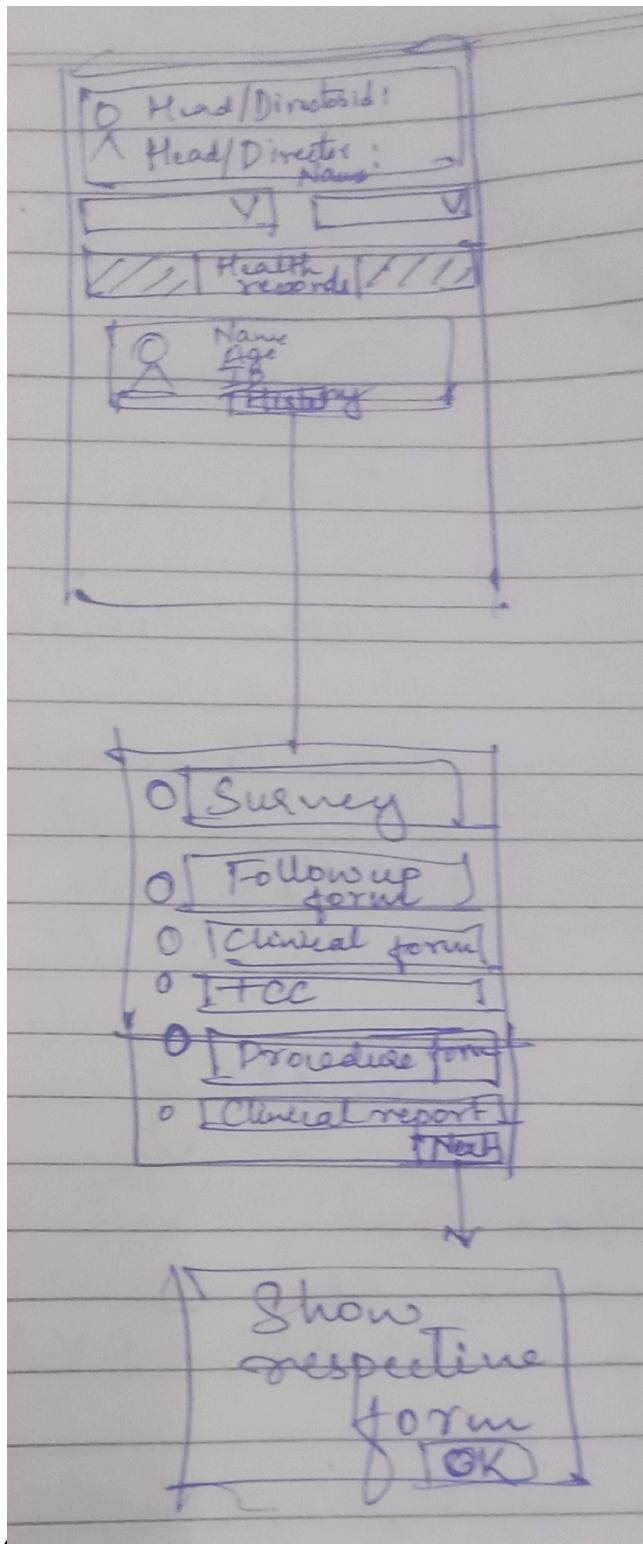
User Interface:

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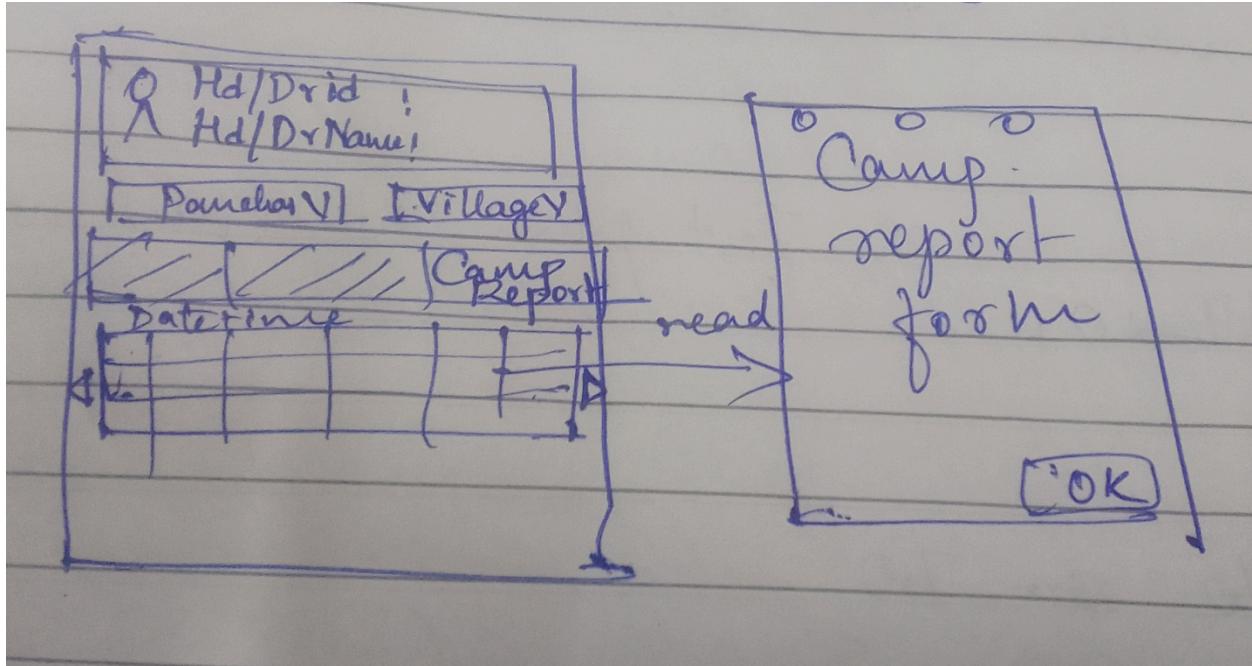


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Note Hd/Dr id should be mentioned as Head/Director Id and Hd/Dr Name should be mentioned as Head/Director Name

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6 APPENDIX

Sl No	Content	Attachment
1	NA	

***** END OF DOCUMENT *****