

Open Survey System

V2.0

(Development Process)

Software Development Life Cycle (SDLC)

Evolutionary Prototyping Model

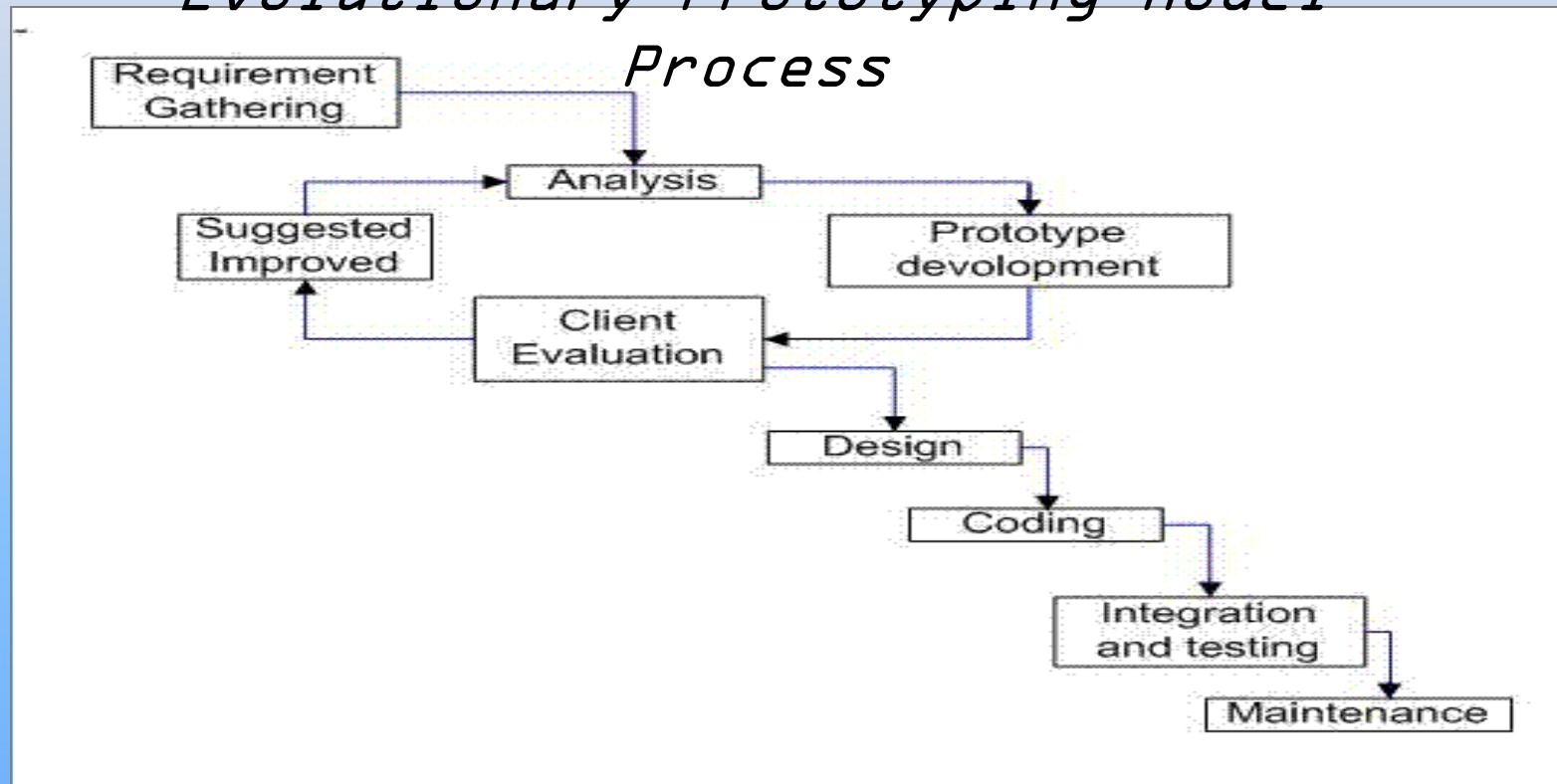


Figure 1. SDLC

Phase 1: Requirement Gathering

In this phase, the programmer tries to find out the need of the user for the database system. An extensive study through interview UN-HABITAT Research and Information Officer and UN-HABITAT Mapper, and field coordinators about what will be the design and process of the system. This phase helped the programmer to enhance and develop the database system suitable to the needs of each LGU and help the technician discover new ideas in improving the database system for better and faster data processing.

Phase 2: Analysis

After studying the design and process that suitable for the database system. The programmer realized what should be done to fulfill the requirement/s in order to develop the database system. The hardware and software requirements which will make the program run efficiently.

Phase 3: Prototype Development

The programmer created a sample prototype of each features/function of the software database to showcase what would be the design of each function interface.

Phase 4: Client Evaluation

In this phase, the technician presented the prototype twice a month to the UN-HABITAT Tacloban team together with the field coordinators in Region VIII.

Phase 5: Suggested Improved

After the evaluation, this phase helps the programmer to know what the recommendation and suggestions that can be apply in the database system.

Phase 6: Design

The Open Survey System is coded using Visual Basic 6.0 for the front end and MYSQL for database server (back end).

Phase 7: Coding

In this phase, the programmer began to input source code for the database system. The kind of coding varies depending on what programming language used by the technician and queries complexity of each functions in the system. This is the most part wherein the technician times are consumed. This is due to the fact that this is the essential part of the system. This is where all computations are being done, processed, and what kind of database system will be the outcome.

Phase 8: Integration and Testing

This is the phase where in the users of the program will begin to use the installed database system. This is to see if there are any problems that the user will encounter. This phase is mainly to see if the user is comfortable using the newly database system. Any errors that were occurred when the user used the system are subject to change immediately. Most of the inconvenience that the user has encountered are done and changed through maintenance.

Phase 9: Maintenance

In this is the final phase where all the other phases are checked. Any revisions or alterations in the database system are done in this stage so as to perform efficiently. This phase includes training of the users of the system and planning for better ideas to improve the ease of the interactions between the users and the new software. Once all errors have been solved and the system has been improved the database system is then ready for implementation and use.

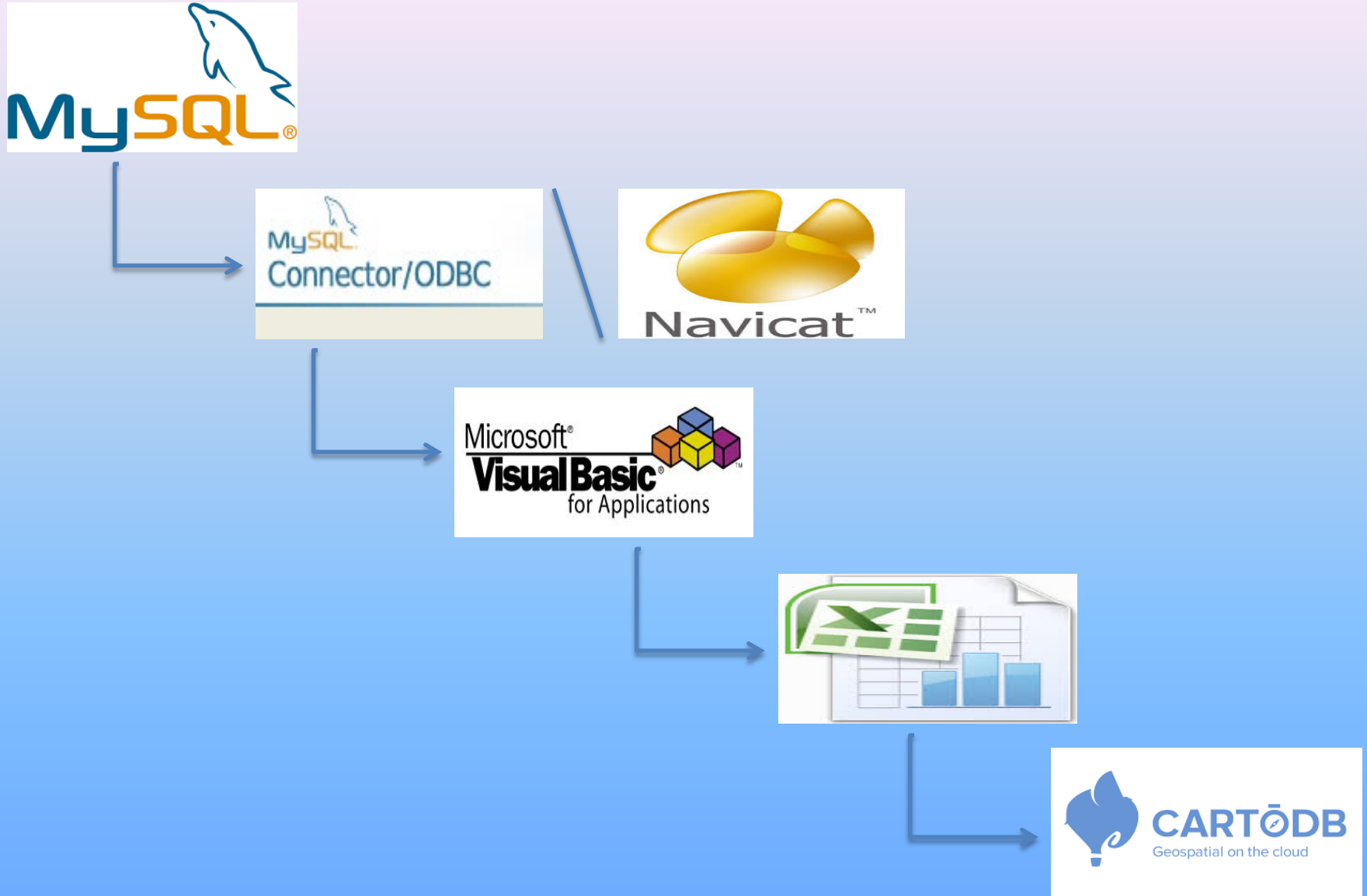


Figure 2. Simple Chart OSS Database

Database Design

1_hh_couple_shelter_wash	vm_agri_tenure_stat	vm_debriefingsatisfaction	vm_house_loc	vm_medicalsatisfaction	vm_psoc_jol
1_hhmembers_1	vm_alignment	vm_disease_type	vm_house_loc2	vm_medicationsatisfaction	vm_psoc_jol
2_hh_livestock_agri_fish_dogs	vm_aquafarm_type	vm_dist_shared_toilet	vm_house_tenure	vm_medsatisfaction	vm_psoc_jol
2_hhmembers_2	vm_assess_house	vm_dogcats_multiple	vm_house_tenure2	vm_natal_serv	vm_psoc_jol
3_hh_items_fshort	vm_bamboo_d	vm_dwelling_unit	vm_house_transitory	vm_natal_serv2	vm_psoc_jol
a_hh_couplesrecord	vm_bamboo_d2	vm_dwelling_unit2	vm_housemat_single	vm_natal_serv3	vm_psoc_jol
a_hhmembers	vm_borrow_single	vm_elements_wind	vm_housemat_single2	vm_nature_employment	vm_psoc_jol
b_hh_expenditure	vm_borrowing_purpose	vm_energy_source	vm_housemat_single3	vm_nature_employment2	vm_psoc_jol
b_hhmembers	vm_building_type	vm_ethnicity	vm_how_contri	vm_nojob_reason	vm_psoc_jol
c_hh_social	vm_building_type2	vm_facility_access	vm_how_contri2	vm_nutrition_stat	vm_psoc_jol
c_hhmembers	vm_calamity_prep	vm_facility_access2	vm_how_contri3	vm_ownedhhitems_multiple	vm_psoc_jol
d_hh_social	vm_checkupsatisfaction	vm_family_duties	vm_how_farwater	vm_partial_damage	vm_psoc_jol
d_hhmembers	vm_chronic_illness	vm_familyplan_guiuan	vm_id_use	vm_payment_term	vm_psoc2
e_hh_livestock	vm_civilstatus	vm_familyplan_tacloban	vm_id_use2	vm_payment_term2	vm_pwdtyp
e_hhmembers	vm_community_action	vm_feedsatisfaction	vm_id_use3	vm_perpetratorcase_status	vm_reason_
f_hh_farming	vm_communityaction	vm_financialsatisfaction	vm_immunization	vm_perpetratorstatus	vm_reason_
f_hhmembers	vm_counsellingsatisfaction	vm_fishing_act	vm_immunization2	vm_pharmacysatisfaction	vm_reason_
g_hh_fishing	vm_crime	vm_fishing_gear	vm_items	vm_postsatisfaction	vm_reasontr
g_hhmembers	vm_crime_freq	vm_fishing_gear	vm_labsatisfaction	vm_potable_watersource	vm_relation:
h_hh_fishing	vm_crimeaction	vm_floor_struc_dimen	vm_livelihood_skills	vm_preferred_relocation	vm_religion
i_hh_fishing	vm_crimefreq	vm_foundation	vm_livelihood_skills2	vm_provmunbg	vm_restorati
j_hh_otheritemsdata	vm_crimeaction	vm_fruit_veg_crops	vm_livelihoodasst	vm_psoc	vm_roof_co
k_hh_shelter	vm_crimeloc	vm_garbage_collect_sched	vm_livestock_multiple	vm_psoc_job_clerk	vm_roof_co
l_hh_livelihood	vm_crimeloc_single	vm_gen_income_need	vm_lot_tenure	vm_psoc_job_clerk2	vm_roof_ligl
m_hh_other	vm_crimelocspecify	vm_gen_income_need2	vm_lot_tenure2	vm_psoc_job_farm	vm_roof_ligl
n_hh_casualties	vm_damage_cause	vm_grade	vm_lot_floor_area	vm_psoc_job_farm2	vm_roof_mi
o_hh_deceased	vm_damage_extent	vm_grade2	vm_lot_floor_area2	vm_psoc_job_labor	vm_roof_mi
p_hh_disaster	vm_death_cause	vm_hazard_danger	vm_lot_floor_area3	vm_psoc_job_labor2	vm_roof_pit
q_hh_disaster		vm_hazard_danger2	vm_lot_floor_area4	vm_psoc_job_off	vm_roof_str
r_hh_disaster		vm_health_serv	vm_measles	vm_psoc_job_off2	vm_roof_str
		vm_healthservsatisfaction			

Figure 3. Database Normalization Design

294 Database Tables

Tables are Divided into 3 Parts

1_hh_couple_shelter_wash	vm_debriefingsatisfaction	vm_house_loc	vm_medicalsatisfaction	vm_psoc_job
1_hhmembers_1	vm_disease_type	vm_house_loc2	vm_medicationsatisfaction	vm_psoc_jo
2_hh_livestock_agri_fish_dogs	vm_dist_shared_toilet	vm_house_tenure	vm_medsatisfaction	vm_psoc_jo
2_hhmembers_2	vm_dogcats_multiple	vm_house_tenure2	vm_natal_serv	vm_psoc_jo
3_hh_items_fshort	vm_dwelling_unit	vm_house_transitory	vm_natal_serv2	vm_psoc_jo
a_hh_couplesrecord	vm_alignment	vm_housemat_single	vm_natal_serv3	vm_psoc_jo
a_hhmembers	vm_aquafarm_type	vm_housemat_single2	vm_nature_employment	vm_psoc_jo
b_hh_expenditure	vm_assess_house	vm_housemat_single3	vm_nature_employment2	vm_psoc_jo
b_hhmembers	vm_bamboo_d	vm_how_contri	vm_nojob_reason	vm_psoc_jo
c_hh_social	vm_bamboo_d2	vm_how_contri2	vm_nutrition_stat	vm_psoc_jo
c_hhmembers	vm_borrow_single	vm_how_contri3	vm_ownedhhitems_multiple	vm_psoc_jo
d_hh_social	vm_borrowing_purpose	vm_how_farwater	vm_partial_damage	vm_psoc_jo
d_hhmembers	vm_building_type	vm_id_use	vm_payment_term	vm_psoc2
e_hh_livestock	vm_building_type2	vm_id_use2	vm_payment_term2	vm_pwdtyp
e_hhmembers	vm_calamity_prep	vm_id_use3	vm_perpetratorcase_status	vm_reason_
f_hh_farming	vm_checkupsatisfaction	vm_immunization	vm_perpetratorstatus	vm_reason_
f_hhmembers	vm_chronic_illness	vm_immunization2	vm_pharmacysatisfaction	vm_reason_
g_hh_fishing	vm_civilstatus	vm_items	vm_postsatisfaction	vm_reasontr
g_hhmembers	vm_community_action	vm_labsatisfaction	vm_potable_watersource	vm_relation:
h_hh_fishing	vm_communityaction	vm_livelihood_skills	vm_preferred_relocation	vm_religion
i_hh_fishing	vm_counsellingsatisfaction	vm_livelihood_skills2	vm_provmunbgy	vm_restorati
j_hh_otheritemsdata	vm_crime	vm_livelihoodasst	vm_psoc	vm_roof_co
k_hh_shelter	vm_crime_freq	vm_livestock_multiple	vm_psoc_job_clerk	vm_roof_co
l_hh_livelihood	vm_crimeaction	vm_lot_tenure	vm_psoc_job_clerk2	vm_roof_lig
m_hh_other	vm_crimeloc	vm_grade	vm_psoc_job_farm	vm_roof_lig
n_hh_casualties	vm_crimeloc_single	vm_grade2	vm_psoc_job_farm2	vm_roof_mi
o_hh_deceased	vm_crimelocspecify	vm_hazard_danger	vm_psoc_job_labor	vm_roof_mi
p_hh_disaster	vm_damage_cause	vm_hazard_danger2	vm_psoc_job_labor2	vm_roof_pit
q_hh_disaster	vm_damage_extent	vm_health_serv	vm_psoc_job_off	vm_roof_str
r_hh_disaster	vm_death_cause	vm_healthservsatisfaction	vm_psoc_job_off2	vm_roof_str

Figure 4. Household Tables

Tables are Divided into 3 Parts

1_hh_couple_shelter_wash	vm_snap_shelter	vm_debriefingsatisfaction	vm_house_loc	vm_medicalsatisfaction	vm_psoc_job
1_hhmembers_1	vm_user	vm_disease_type	vm_house_loc2	vm_medicationsatisfaction	vm_psoc_job
2_hh_livestock_agri_fish_logs	vm_user_log	vm_dist_shared_toilet	vm_house_tenure	vm_medsatisfaction	vm_psoc_job
2_hhmembers_2	vm_agri_equipment	vm_dogcats_multiple	vm_house_tenure2	vm_natal_serv	vm_psoc_job
3_hh_items_fshort	vm_agri_tenure_stat	vm_dwelling_unit	vm_house_transitory	vm_natal_serv2	vm_psoc_job
a_hh_couplesrecord	vm_alignment	vm_dwelling_unit2	vm_housemat_single	vm_natal_serv3	vm_psoc_job
a_hhmembers	vm_aquafarm_type	vm_elements_wind	vm_housemat_single2	vm_nature_employment	vm_psoc_job
b_hh_expenditure	vm_assess_house	vm_energy_source	vm_housemat_single3	vm_nature_employment2	vm_psoc_job
b_hhmembers	vm_bamboo_d	vm_ethnicity	vm_how_contri	vm_nojob_reason	vm_psoc_job
c_hh_social	vm_bamboo_d2	vm_facility_access	vm_how_contri2	vm_nutrition_stat	vm_psoc_job
c_hhmembers	vm_borrow_single	vm_facility_access2	vm_how_contri3	vm_ownedhhitems_multiple	vm_psoc_job
d_hh_social	vm_borrowing_purpose	vm_family_duties	vm_how_farwater	vm_partial_damage	vm_psoc_job
d_hhmembers	vm_building_type	vm_familyplan_guiuan	vm_id_use	vm_payment_term	vm_psoc2
e_hh_livestock	vm_building_type2	vm_familyplan_tacloban	vm_id_use2	vm_payment_term2	vm_pwdtype
e_hhmembers	vm_calamity_prep	vm_feedsatisfaction	vm_id_use3	vm_perpetratorcase_status	vm_reason_
f_hh_farming	vm_checkupsatisfaction	vm_financialsatisfaction	vm_immunization	vm_perpetratorstatus	vm_reason_
f_hhmembers	vm_chronic_illness	vm_fishing_act	vm_immunization2	vm_pharmacysatisfaction	vm_reason_
g_hh_fishing	vm_civilstatus	vm_fishing_gear	vm_items	vm_postsatisfaction	vm_reasontr
g_hhmembers	vm_community_action	vm_floor_struc_dimen	vm_labsatisfaction	vm_potable_watersource	vm_relation:
h_hh_fishing	vm_communityaction	vm_foundation	vm_livelihood_skills	vm_preferred_relocation	vm_religion
i_hh_fishing	vm_counsellingsatisfaction	vm_fruit_veg_crops	vm_livelihood_skills2	vm_provmunbgy	vm_restorati
j_hh_otheritemsdata	vm_crime	vm_garbage_collect_sched	vm_livelihoodasst	vm_psoc	vm_roof_co
k_hh_shelter	vm_crime_freq	vm_gen_income_need	vm_livestock_multiple	vm_psoc_job_clerk	vm_roof_co
l_hh_livelihood	vm_crimeaction	vm_gen_income_need2	vm_lot_tenure	vm_psoc_job_clerk2	vm_roof_lig
m_hh_other	vm_crimeloc	vm_grade	vm_lot_tenure2	vm_psoc_job_farm	vm_roof_lig
n_hh_casualties	vm_crimeloc_single	vm_grade2	vm_lotfloor_area	vm_psoc_job_farm2	vm_roof_mi
o_hh_deceased	vm_crimelocspecify	vm_hazard_danger	vm_lotfloor_area2	vm_psoc_job_labor	vm_roof_mi
p_hh_disaster	vm_damage_cause	vm_hazard_danger2	vm_lotfloor_area3	vm_psoc_job_labor2	vm_roof_pit
q_hh_disaster	vm_damage_extent	vm_health_serv	vm_lotfloor_area4	vm_psoc_job_off	vm_roof_str
r_hh_disaster	vm_death_cause	vm_healthservsatisfaction	vm_measles	vm_psoc_job_off2	vm_roof_str

Figure 5. User Tables

Tables are Divided into 3 Parts

1_hh_couple_shelter_wash	vm_agri_equipment	vm_debriefingsatisfaction	vm_house_loc	vm_medicalsatisfaction	vm_psoc_job
1_hhmembers_1	vm_agri_tenure_stat	vm_disease_type	vm_house_loc2	vm_medicationsatisfaction	vm_psoc_jo
2_hh_livestock_agri_fish_dogs	vm_alignment	vm_dist_shared_toilet	vm_house_tenure	vm_medicatification	vm_psoc_jo
2_hhmembers_2	vm_aquafarm_type	vm_dogcats_multiple	vm_house_tenure2	vm_natal_serv	vm_psoc_jo
3_hh_items_fshort	vm_assess_house	vm_dwelling_unit	vm_house_transitory	vm_natal_serv2	vm_psoc_jo
a_hh_couplesrecord	vm_bamboo_d	vm_dwelling_unit2	vm_housemat_single	vm_natal_serv3	vm_psoc_jo
a_hhmembers	vm_bamboo_d2	vm_elements_wind	vm_housemat_single2	vm_nature_employment	vm_psoc_jo
b_hh_expenditure	vm_borrow_single	vm_energy_source	vm_housemat_single3	vm_nature_employment2	vm_psoc_jo
b_hhmembers	vm_borrowing_purpose	vm_ethnicity	vm_how_contri	vm_nojob_reason	vm_psoc_jo
c_hh_social	vm_building_type	vm_facility_access	vm_how_contri2	vm_nutrition_stat	vm_psoc_jo
c_hhmembers	vm_building_type2	vm_facility_access2	vm_how_contri3	vm_ownedhhitems_multiple	vm_psoc_jo
d_hh_social	vm_calamity_prep	vm_family_duties	vm_how_farwater	vm_partial_damage	vm_psoc_jo
d_hhmembers	vm_checkupsatisfaction	vm_familyplan_guiuan	vm_id_use	vm_payment_term	vm_psoc2
e_hh_livestock	vm_chronic_illness	vm_familyplan_tacloban	vm_id_use2	vm_payment_term2	vm_pwdtyp
e_hhmembers	vm_civilstatus	vm_feedsatisfaction	vm_id_use3	vm_perpetratorcase_status	vm_reason
f_hh_farming	vm_community_action	vm_financialsatisfaction	vm_immunization	vm_perpetratorstatus	vm_reason
f_hhmembers	vm_communityaction	vm_fishing_act	vm_immunization2	vm_pharmacysatisfaction	vm_reason
g_hh_fishing	vm_counsellingsatisfaction	vm_fishing_gear	vm_items	vm_postsatisfaction	vm_reason
g_hhmembers	vm_crime	vm_fishing_gear	vm_labsatisfaction	vm_potable_watersource	vm_relatior
h_hh_fishing	vm_crime_freq	vm_floor_struc_dimen	vm_livelihood_skills	vm_preferred_relocation	vm_religion
i_hh_fishing	vm_crimeaction	vm_foundation	vm_livelihood_skills2	vm_provmunbgy	vm_restorat
j_hh_otheritemsdata	vm_crimeloc	vm_fruit_veg_crops	vm_livelihoodasst	vm_psoc	vm_roof_cc
k_hh_shelter	vm_crimeloc_single	vm_garbage_collect_sched	vm_livestock_multiple	vm_psoc_job_clerk	vm_roof_cc
l_hh_livelihood	vm_crimelocspecify	vm_gen_income_need	vm_lot_tenure	vm_psoc_job_clerk2	vm_roof_lig
m_hh_other	vm_damage_cause	vm_gen_income_need2	vm_lot_tenure2	vm_psoc_job_farm	vm_roof_lig
n_hh_casualties	vm_damage_extent	vm_grade	vm_lot_floor_area	vm_psoc_job_farm2	vm_roof_m
o_hh_deceased	vm_death_cause	vm_grade2	vm_lot_floor_area2	vm_psoc_job_labor	vm_roof_m
p_hh_disaster		vm_hazard_danger	vm_lot_floor_area2	vm_psoc_job_labor2	vm_roof_pi
q_hh_disaster		vm_hazard_danger2	vm_lot_floor_area3	vm_psoc_job_off	vm_roof_st
r_hh_disaster		vm_health_serv	vm_lot_floor_area4	vm_psoc_job_off2	vm_roof_st
		vm_healthservsatisfaction	vm_measles		

Figure 6. Maintenance Tables

Database Design

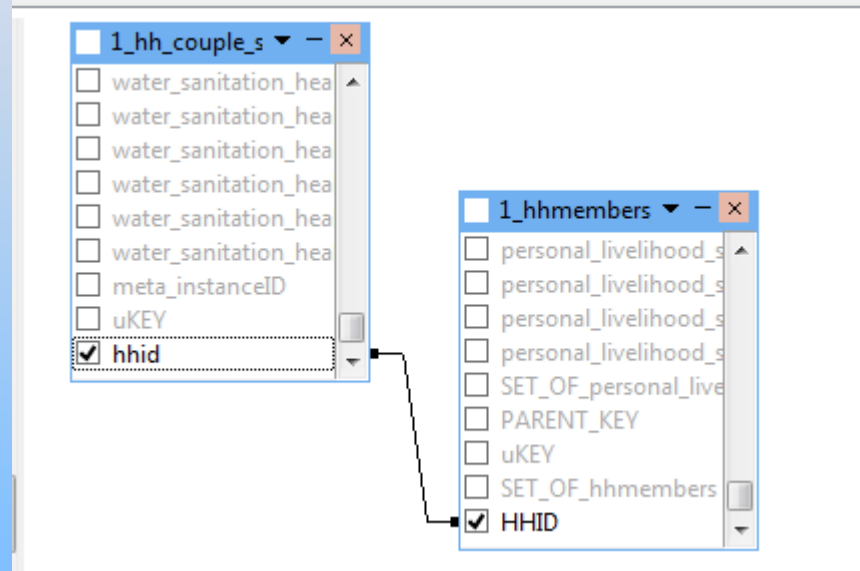


Figure 7. Database Design

Software Development Life Cycle (SDLC)

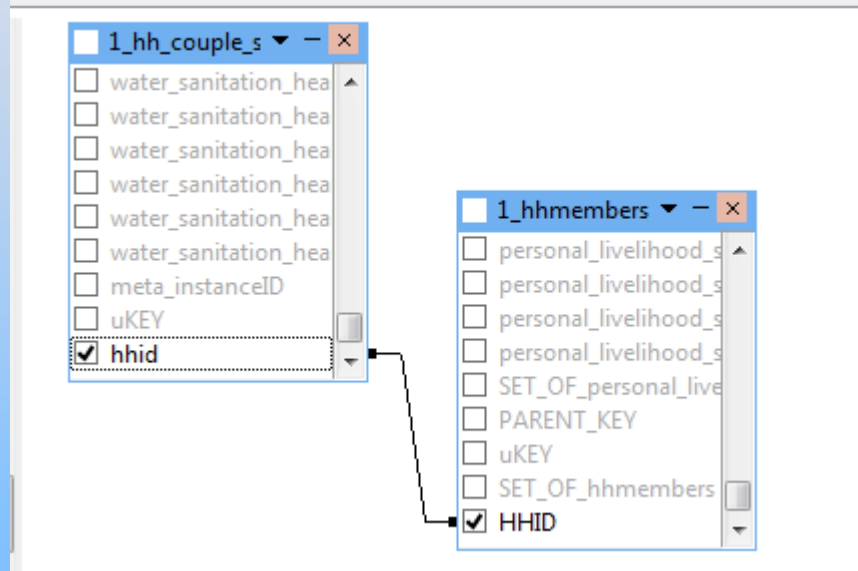


Figure 6. Database Design

The End