

International Institute of Health Management Research (IIHMR)
NEW DELHI

Batch- 2016-18
Term Exam (December, 2017)

Total marks: 70

Healthcare Information System Design (HIT 707)

Time – 2.5 Hr

1. REQUEST FOR PROPOSAL (RFP) FOR GROUP HOME SERVICES MISSION STATEMENT

We, the staff of the Hamilton County Department of Job and Family Services, provide services for our community today to enhance the quality of living for a better tomorrow.

1.0 REQUIREMENTS & SPECIFICATIONS

1.1 Introduction & Purpose of the Request for Proposal The Hamilton County Department of Job and Family Services (HCJFS) is seeking proposals for the purchase of group home services for children in HCJFS' custody for whom it has been determined a group home setting is appropriate. HCJFS reserves the right to award multiple or no contracts to meet the needs of the child welfare population for this service.

1.2 Scope of Service HCJFS is looking for organizations to provide community based group home services for the child welfare population of Hamilton County who meet level of care criterion for a group home setting (see Attachment C for description). Organization(s) with strong behavioral management practices shall provide transitional out-of-home placement services predominantly for children to step down into lower levels of care, transition into Independent Living arrangements, or to stabilize and avoid a more restrictive setting. It is expected group homes shall have the ability to provide service at the level of care purchased without purchasing any additional supportive services, unless requested and approved by HCJFS prior to service delivery. Group home services are targeted to latency age youth and adolescents who have behavioral/emotional problems, need a less structured environment at present, and would benefit from treatment in a group setting. These children can not function in a family environment at present, but do not require the intensive treatment provided by a residential facility. Group home size may range from five (5) to fourteen (14) youth and must include a ratio of not more than five (5) youth to one (1) staff during peak hours. Peak hours shall be defined as 3:00 p.m. to 11:00 p.m. on school days and 8:00 a.m. to 11:00 p.m. on nonschool days.

1.2.1 Population HCJFS seeks to provide services for the following populations: A. youth sex offenders (12-17 years of age); B. delinquent youth (12-17 years of age); C. emancipated youth (12-17 years of age); and D. latency age youth (10-12 years of age); In most situations the population consists of abused, neglected or dependent male and female youth requiring placement where a foster home placement is either inappropriate or unavailable.

1.2.2 Service Numbers There are currently 46 children in group home facilities. Over the past 12 months there has been an average of 48 children in such living arrangement each month. This data is provided for planning purposes only. HCJFS does not guarantee the current service level will increase, decrease, or remain constant

1.2.3 Service Components Service components that shall be available to youth living in the group home are, at a minimum: A. Transportation; B. Monthly clothing allowance; C. Independent daily living skills; D. Medication monitoring to include requirements by Ohio Department of Job & Family Services (ODJFS) as to administration by adults, record keeping, etc.; E. Educational planning to include advocacy, enrollment, and transitional aftercare or step-down to another school setting; F. Small groups; G. Case management; H. Court appearances and testimony, and reports to the court; I. Progress reports; J. Recreational/social/therapeutic services; K. Intake/treatment/transitional planning/discharge planning; L. Provisions for diagnostic assessments/ongoing treatment; and M. Behavior modification/management.

The above does not include functional requirements. Based on the above, kindly list the different headings or topics you would include while submitting a proposal to develop the software. Do not include technical details **20 marks**

2. Construct ERD diagram for the case provided **30 marks**

Make an E-R diagram for Ambulance services providing company. The database contains data about the driver, emergency incidents/ accidents involving the pickup, vehicles and patients (who get picked up). One doctor and one staff nurse with technician will be in the ambulance. The drivers may be involved in different pickups at different times. The technicians may be involved in different pickups in different times. The doctor and the nurse at a maximum can be involved in 4 pickups a day. Only one patient will be involved in one pickup. Make necessary assumptions.

3. Draw DFD for the following **20 marks**

Based on the WorkFlow of OPD provided draw zero level, first level Data Flow Diagrams

1. Patient Calls in at the Registration Desk

2a. If the patient is a corporate individual then register the patient, check credit letter and appointment details, generate invoice and send to health checkup desk or consultation.

2b. if Patient has previous appointment scheduled then step 3

 Else if the patient has no previous appointment then

 If patient has no specific doctor then Doctor with next available slot allotted and then step 3

 Else if patients asks for Specific doctor for consultation

first Doctor's schedule checked and if slot available appointment given then step 3
else if another doctor acceptable to the patient, doctor with next available slot is
allotted then step 3

else appointment given for next available slot of the same doctor and patient leaves.

3. if first time visit generate new Regn No. and OPD no else retrieve previous regn no and
generate new OPD no

4. Bill generated for consultation, appointment schedule of concerned doctor updated

5. Bill collected and patient walks to OPD consultation

Separate workflow for appointment

1. if corporate request either direct or online check details of customers, check schedule of
doctors availability and fix health checkup dates

2. For normal customer

If patient has no specific doctor then appointment of any doctor in specific OPD on
the next available date or preferred date by customer allotted

Else if patients asks for Specific doctor for consultation first Doctor's schedule checked
for next available date and appointment given