



Indian Institute of Technology Hyderabad

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CORRIGENDUM 1

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Details of legacy systems, data migration and integration with legacy systems, source code sharing with IITH

IITH has been operational since 2008. It has legacy systems like Tally for accounting, Academic Information Management System (AIMS) for student lifecycle management, Digital Library, biometric attendance system, Staff recruitment portal and Faculty Recruitment portal.

Data from Tally and AIMS present in the form of databases has to be migrated to the appropriate modules in the new ERP system while legacy systems like Digital Library, biometric attendance system, Staff recruitment portal and Faculty Recruitment portal need to be integrated with new ERP system by developing necessary interfaces by the implementing agency. AIMS used PostgreSQL dbms. 8000 users data to be migrated from AIMS. PHP and MariaDB are used in the staff/faculty legacy webportals. ASP .NET and MS SQL server are used in legacy biometric attendance system. Digital library system is based on KOHA and DSpace technologies. Plus different sections like Hostels, Admin, Stores and Purchases, and R&D section maintaining their data in excels which also need to be migrated to the appropriate modules of the new ERP system. The total volume of data to be migrated into the new ERP system is approximately 100 GB.

Vendors may opt for work flow engine (aka design studio) which automatically generates code for developing new ERP system of IITH or write source code directly. In the latter case, any source code used or developed in the implementation of the core and other ERP modules should be shared with IITH so that future performance enhancements and/or debugging can be independently carried out by IITH post the project term. In the former case, the vendor should try to provide any and all the source code to the maximum possible extent. If the Design Studio is of highly proprietary nature, the Design Studio that is used in the ERP solution need to be provided with all the features with perpetual license and perpetual security updates, the cost of which should be included in the bid, if any. Any and all improvements and feature addition in the Design Studio and/or workflow engine till the time the ERP

system is under AMES need to be provided. With respect to the Design Studio, the source code needs to be provided for any and all the customizations, including any code/module generated from the Studio.

The ownership of the source code and IP rights of ERP rests with the IA or OEM of ERP software. IITH will not use or distribute the source code for any commercial or noncommercial purposes. IITH will sign NDA or any other legal document as deemed fit by the implementing agency for sharing of source code.

ERP Hospital-Modules

Hospital Management Information System should have the following:

Main Clinic

1. Patient Registration

Employees and their dependents data should come from establishment section data. Student data should come from Academic Section data.

2. The details of preexisting diseases of students/staff/faculty mentioned in their medical certificates produced at the time of joining should be visible to the doctors on duty

3. Each doctor should have a separate login

4. Patients will visit the clinic and get registered for treatment at reception/ registration desk. The queue will be displayed to the waiting patients.

5. When a doctor becomes free, the next patient will be automatically allocated to the doctor. A patient can express a preference for any doctor at the time of registration/appointment booking.

6. The history of the previous treatment/ medical records will be visible to the doctor. Doctor will record his comments / prescription and save it.

7. The doctor can choose from the available medicines and issue a prescription which will directly go to Apollo pharmacy.

8. Doctor can prescribe the tests to be conducted and this info will be directly go to the Accounts Section for issue of referral letter.

9. Patients can update their test results after completing tests for future record.

10. Patients can view their medical history.

11. Reports like the number of patients visiting the clinic day wise month wise, number of patients reviewed by each doctor, should be generated

Specialty clinic

1. Scheduling of visiting specialist doctors
2. Patients can raise request for appointments online
3. Automatic mails to registered patients in case of change in schedule
4. Specialist doctors can view medical history and can record their prescription, tests, medicines.
5. Reports like number of patients reviewed by each doctor etc.

Detailed processes are given below:

Registration module

Input	Name of patient, ID No, Age/Sex In case of private patient's provision to capture the master data (including Photo) during registration should be available. And provision for generation of Bills on confirmation of providing treatment
Process	Provision of Online portal on IITH Intranet for taking prior appointment with the doctor. The time slots can be auto generated based on the availability of the doctor or the patient can select the specific time slot if it is free. There should be provision for On spot or Walk-In appointment at IIT Hospital Registration Counter - Emergency counter registration
Output	Provision for generation of Registration Slip on re-confirmation by the patient at the IITH registration counter on the date of appointment, based on which the final schedule will be published in Doctors OPD chamber.
Interface	<ul style="list-style-type: none"> • Provision to block appointments based on emergency schedules and surgery

	<p>schedules and non-availability of the concerned doctor.</p> <ul style="list-style-type: none"> The web module should have GUI based time slot selection. The web login available for patients should not be considered for user license, unlimited users can access the web portal.
Workflow management	<ul style="list-style-type: none"> Provision for transfer/ re-scheduling or cancellation scheduled appointments. System should have facility to move the old appointment to archive and purge the cancellation records. The retention policy should be definable by the administrator.
Remarks	Extensive user customized queries (search criteria) and reports

Diagnosis and Prescription module

Input	Diagnosis/disease profile template creation by the doctor for recording their patient's symptoms/complaints.
Process	Entry of Symptoms or complaints should be user friendly preferably based on list of values(LOV) and additional notes (free text) entry.
Output	<ul style="list-style-type: none"> Summary and link of Last visit diagnosis to be available in the diagnosis entry screen. Generation of clinical statistics on various parameters. Recording of Doctor's provisional diagnosis & final diagnosis Prescribe drugs, doses, duration from available drugs master

	<ul style="list-style-type: none"> • Facility to maintain, entry, view, update medical information such as allergies, history, high risk etc. • Alerts on drug conflict management like patient specific allergy based on patient's history
Interface	<ul style="list-style-type: none"> • Alerts on drug conflict management like patient specific allergy based on patient's history
Workflow management	<ul style="list-style-type: none"> • Entry and monitoring of Treatment Plan • The doctor's medical and lab test prescription should automatically trigger request to internal pharmacy and labs • Schedule future appointments, Prescribe LAB tests • Refer to other IITH doctors or Referral Hospitals, Recommend patient for Admission, • Patient feedback and suggestion system Capturing and monitoring
Remarks	System should provide extensive user customized queries (search criteria) and reports

Pharmacy module

- Issue of drugs as per Doctor's Prescription which should automatically flow from the Prescription Management module to the Apollo pharmacy.
- Automatic checking and warning on drug interactions/patient allergies in patient prescription
- Provision to support alternative drug suggestion

Referral module

- Advice for referral will be triggered from OPD / emergency /In-patient prescription mgmt system



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- Provision to extract the Patient history and upload the same on the Referral Mgmt module.
- Request and approval for extension of Referral Duration
- Approval of follow-up treatment