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Re: SMS Module Design Specification Draft

1. Backend

- a. Patient Representation
 - i. Demographics, phone number, etc.
 - ii. Will use OpenMRS
- b. Messages
 - i. Stored message representation
 - ii. REST endpoints to get/update/save/delete
- c. Message tags
 - i. Labels which can be used to filter messages for purposes of analysis)
 - ii. REST endpoints to get/update/save/delete
- d. Message Program
 - i. Set of messages to allow for one-time enrollment
 - ii. Patients moves through set and then it repeats
 - iii. Log of where patient is in message program
 - iv. REST endpoints to get/update/save/delete
- e. Message processor
 - i. Sends and receives messages from third party provider
 - ii. Calls functions to initiate actions on processing of message
 - iii. REST endpoints to send (post) message
- f. Scheduler (to look for and send scheduled messages)
 - i. Use AMRS scheduler
- g. Scheduled Event
 - i. Event consists of a datetime and a function to call (in this case, it would be to send an sms) and patientID
 - ii. Scheduled Event Type (e.g. "send sms")
 - iii. REST Endpoints to get/post/delete
- h. Logs
 - i. SMS Log - Store individual message (sender,receiver,phone number, datetime, message, was received)
 - ii. Program SMS Log – relate SMS Log to program
 - iii. Scheduled Event Log – relate SMS Log to scheduled event
 - iv. REST endpoints for each log
- i. Appointment Reminder Program
 - i. Database record that patient is enrolled (will use AMRS PersonAttribute or Cohort)
 - ii. Cron job to find rtc dates if patient had recent encounter
 1. Schedule SMS reminder
 2. Void existing reminder if patient has new RTC date

2. Frontend

- a. Admin Dashboard

- i. Message Management
 - 1. Services to access rest endpoints for message, message program,
 - 2. Creating messages/message programs
- b. Patient Dashboard (14 days)
 - i. Message log
 - ii. History of message programs
 - iii. UI to enroll/unenroll patients into message program
 - 1. Schedule customizable (can assign day(s) and time(s) for message program.
 - 2. Start and end date for program
 - iv. Appointment Reminder Program (4 days)
 - 1. Enrollment Form
 - a. Customizable message text vs message vs message program
 - 2. View to see if patient is going to receive a reminder
 - a. When next message is going to be sent
 - b. When next appointment is
 - c. Message Text