**Xtend Healthcare Coding Challenge Overview:**

This coding challenge is designed to allow you to demonstrate your abilities and discuss your approach to design and implementation with your potential colleagues. You are not expected to spend more than a few hours on the project. You are free to use whatever technologies you prefer, but please be prepared to discuss the choices you’ve made. Some of the technologies we use today include ReactJS, C#, MassTransit, RabbitMQ, and ASP.NET MVC.

We realize that the limited amount of time for this exercise may lead to an incomplete implementation. Please take this as an opportunity to demonstrate the best of your abilities. Feel free to mock out or skip pieces of the implementation and focus your time on exactly what you’d like to show us. We’re not looking for you to give up your weekend for this project, we want something to start a meaningful conversation.

**Business Need:**

One of the functions we provide is the ability to generate custom exports of account information meeting a given set of criteria. Please demonstrate how you would solve the following scenario with the data stored in the following schema:

|  |  |
| --- | --- |
| **[Account]**  Id  ClientId  AccountNumber  Balance  FacilityId  AdmitDate  DischargeDate  PatientId | **[Facility]**  Id  FacilityName  AddressLine1  AddressLine2  City  State  Zip |
| **[Patient]**  Id  FirstName  LastName  MiddleName  SocialSecurityNumber | **[Insurance]**  Id  PlanName  Policy  GroupNumber |
| **[AccountInsurance]** (junction table)  AccountId  InsuranceId | **[Client]**  Id  Name |

We need a Web-based application which allows us to export data for each client along with viewing export history for each client including the number of accounts, total account balance, and export date for each export. The following assumptions should be used for the solution:

* Our client, GeneralHospital, wants a single pipe delimited file with all account information, wants the Patient’s name in the format [Last],[First Initial], and wants all dates formatted as: MM-DD-YYYY, and wants an export file name in the format: *yyyymmdd-gh.data.dat*.
* Our client, VeteranHospital, wants one comma-delimited file per unique facility with account, insurance, and facility data along with just the patient’s SSN; only when the balance is greater than $100.00; and wants each export file name in the format: export-yyyy-mm-dd.[FacilityName].csv
* Other clients may want to use the same type of export

This is of course a contrived example. We want to know how you would implement the application structure and get a brief preview of how you work.