

About DeltaX

DeltaX is an advertising technology startup. We are building a cloud based platform for advertising agencies that integrates with over 10 advertising solution through APIs. Advertisers worldwide can efficiently buy, track, attribute, optimize and report metrics across all media channels (Search, Social, Display RTB, Mobile, Video) using our revolutionary platform.

Awards + Recognition

- DeltaX is the largest Facebook Marketing Partner in South-East Asia
- DeltaX was invited to be part of the BlackBox program in Silicon Valley
- DeltaX one of the 3 companies chosen for Microsoft Ventures Accelerator Plus Program
- DeltaX chosen as TECH30 by YourStory.com as one of the most promising startups in India
- DeltaX named in the Top 10 innovative digital startups to watch Havas UK

Engineering Culture

Core Platform / Services This is the core platform - which is a combination of web application, suite of services (130 at last count), databases, APIs.	Ad-serving / Tracking This is the core adserver (serving, api - as it's consumed by the core platform) and the tracker (click / impression and even trackers for ads and publishers)
Backend frameworksNET MVC - EF Code First - Fluent Migration - WCF - Web API	Backend frameworks - Node.js - Node fiber Database / Storage - AWS DynamoDB
Frontend frameworks - Knockout.JS - Vue.JS (experimental)	- AWS ElasticSearch - AWS S3 - AWS Cloudfront - AWS ElasticTranscoder
<u>Database / Storage</u> - Azure SQL 2014 - Azure Redis (session cache + lookup) - Azure Storage	Cloud Platform - Amazon Web Services Additional Services - AWS Auto-scaling
Cloud Platform - Microsoft Azure	- AWS ELB - AWS Route 53 - AWS Lambda
Additional Services - Azure SQL Database Pool - Azure Functions - AWS Lambda	

Mobile App

This is limited functionality of the core platform on mobile

Ionic Framework

Engineering Blog

You can follow some of the work we do on our engineering blog - http://engineering.deltax.com/



Problem Statement

Create a IMDB.com like website with basic CRUD and movie listing using C# (Asp.NET MVC / Asp.NET Core). We would like to have the following entities in the application.

Actors - Name - Sex - DOB	Movies - Name - Year of release - Plot - Postor (image)	Producers - Name - Sex - DOB
- Bio	- Poster (image)	- Bio

Relationships

- Actor can act in multiple movies
- Movie can have multiple actors
- Movie has only one producer
- Producer can produce multiple movies

Application specifics (minimum requirements)

- 1. Screen to list all movies with Name, Year of release, Producer and all Actors of that movie
- 2. Screen to 'add' a new movie with the necessary fields with existing actors and producers. If the user wants to add new 'Actors' and 'Producers' while creating the movie which are not present in the database then he should be able to do so while being on the same screen.
- 3. 'Listing' screen should allow user to click on 'Edit' and edit all the details of the movie and save it would be a nice to do thing.

Hints and Tips

- 1. Focus on database design; we are fanatic about Normal Forms.
- 2. We are always on the lookout for best practices. Design/Styling/CSS is not critical; functionality is.
- 3. Define your own rules for validation; use common sense also please make a note of the validations that you have added
- 4. Use of upcoming JS frameworks like Knockout / Vue / React / Angular to surprise us.
- 5. Use Docker / ASP.NET Core and 'WOW' us!

Application Submission

DB script / Code

Commit the Code to your Bitbucket / Github account along with the DB scripts. Please share the URL with detailed instructions for us to setup and run your web application.

Kindly email your queries or submit your assignment at 'hireme+inegg2018@deltax.com' with subject - 'Product Engineer - YOURNAME'