

# University of CONTOSO

MSA Phase 2

University of Contoso Student Portal

James Li

# About myself

Mechatronics Engineering (R&D) @ ANU Computer Vision and Robotics

Software Engineering @ UoA



## About myself

Have been doing web-ish stuff for a while (2008-)

User scripts (Greasemonkey)

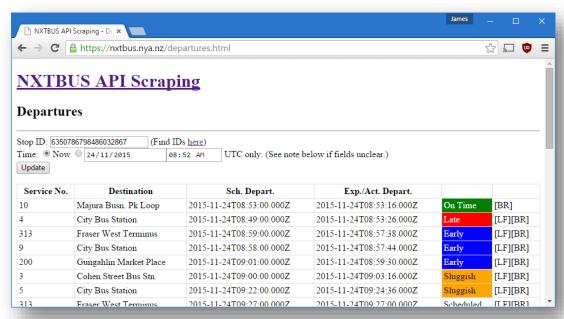
Web "apps" (Dynamic tables, public transport APIs...)

Most recently: Robogals

Sysadmin + web design/dev

Website (Oct 2014)

Everything written from scratch over about a month





### Scenario & Requirements

University of CONTOSO

20 000+ students, geographically dispersed Need student and course management services

Online enrolment platform for students

An application for all devices

Ready for future integration with university systems

#### Solution

University of Contoso Student Portal

Shortened URL: <a href="http://uc.nya.nz">http://uc.nya.nz</a>

Hosted at: http://university-of-contoso.azurewebsites.net

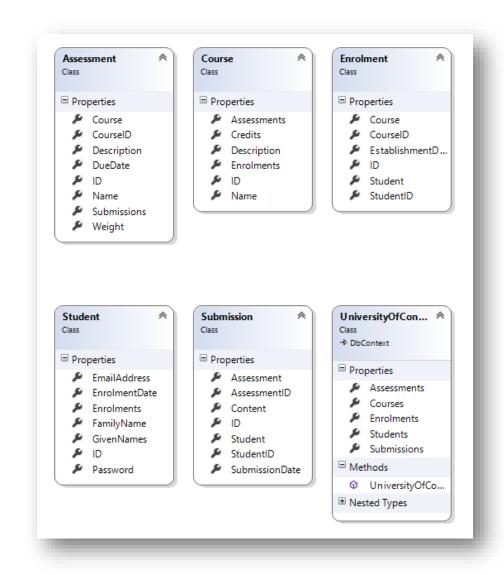
#### Day 1/2 – Backend

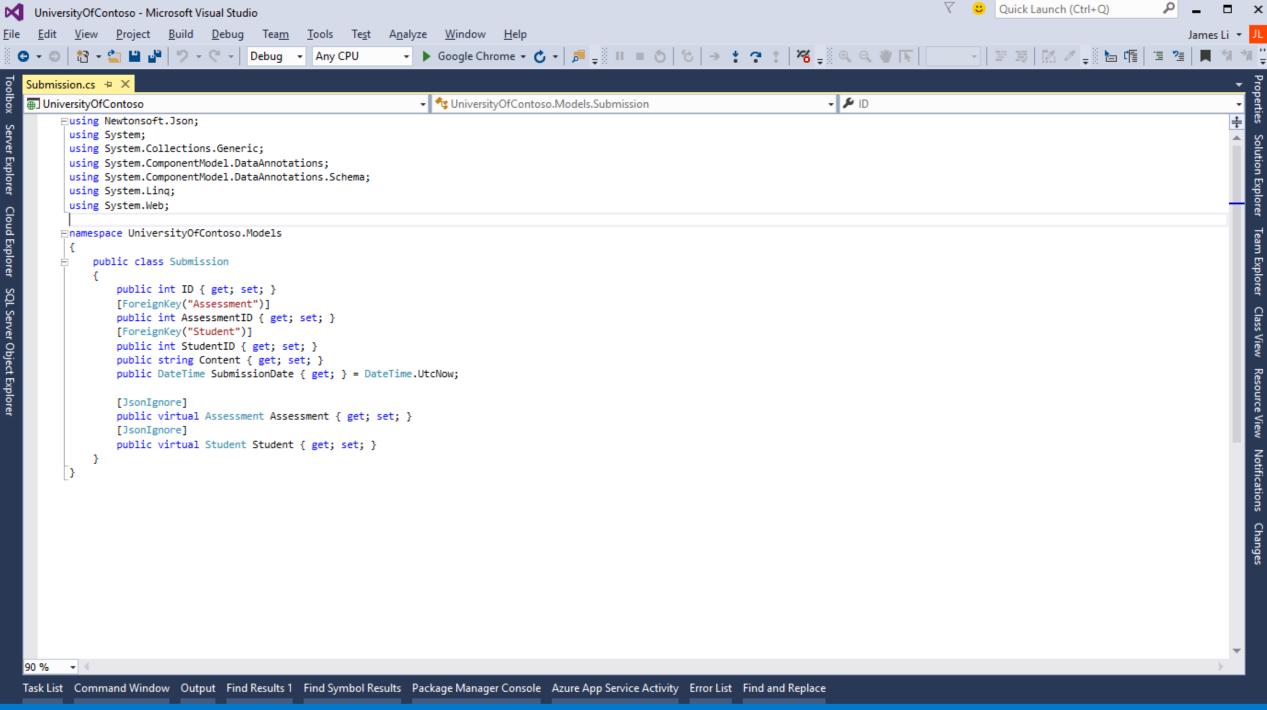
Learning about using ASP.NET

Tables with EF Code-First

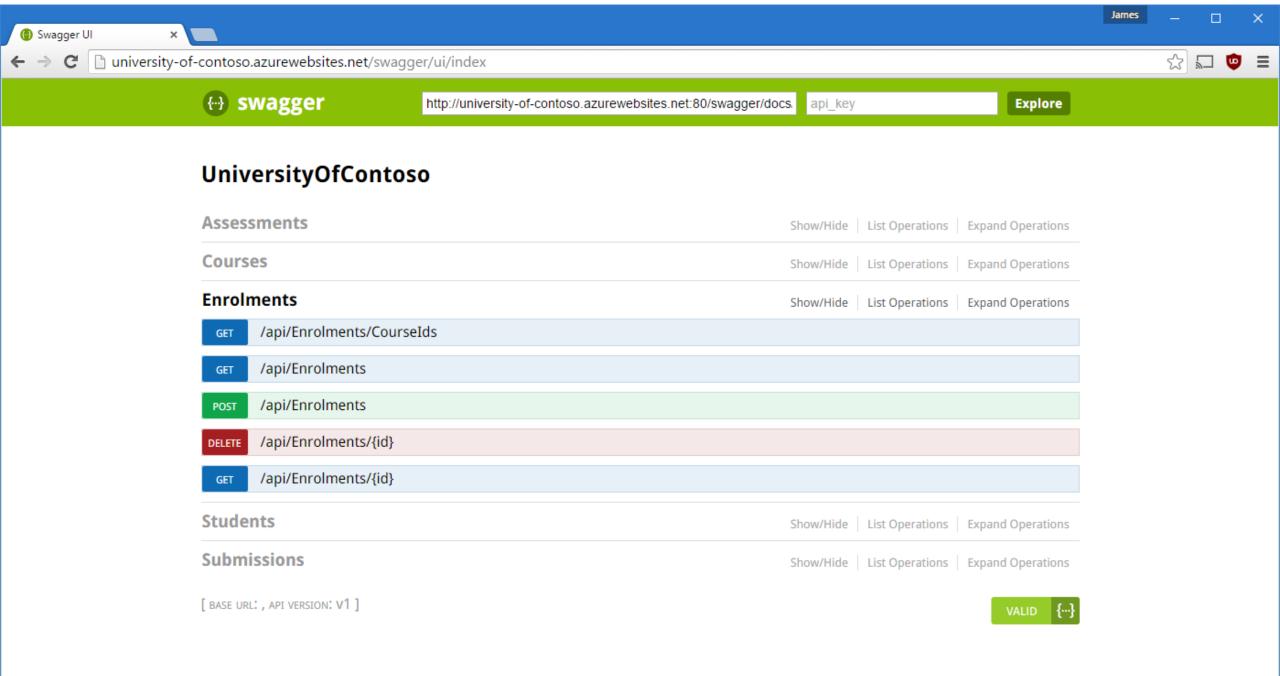
ASP.NET Web API controllers + Basic HTTP Auth Swagger

Project hosted on GitHub





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#### Day 2/3 – Frontend

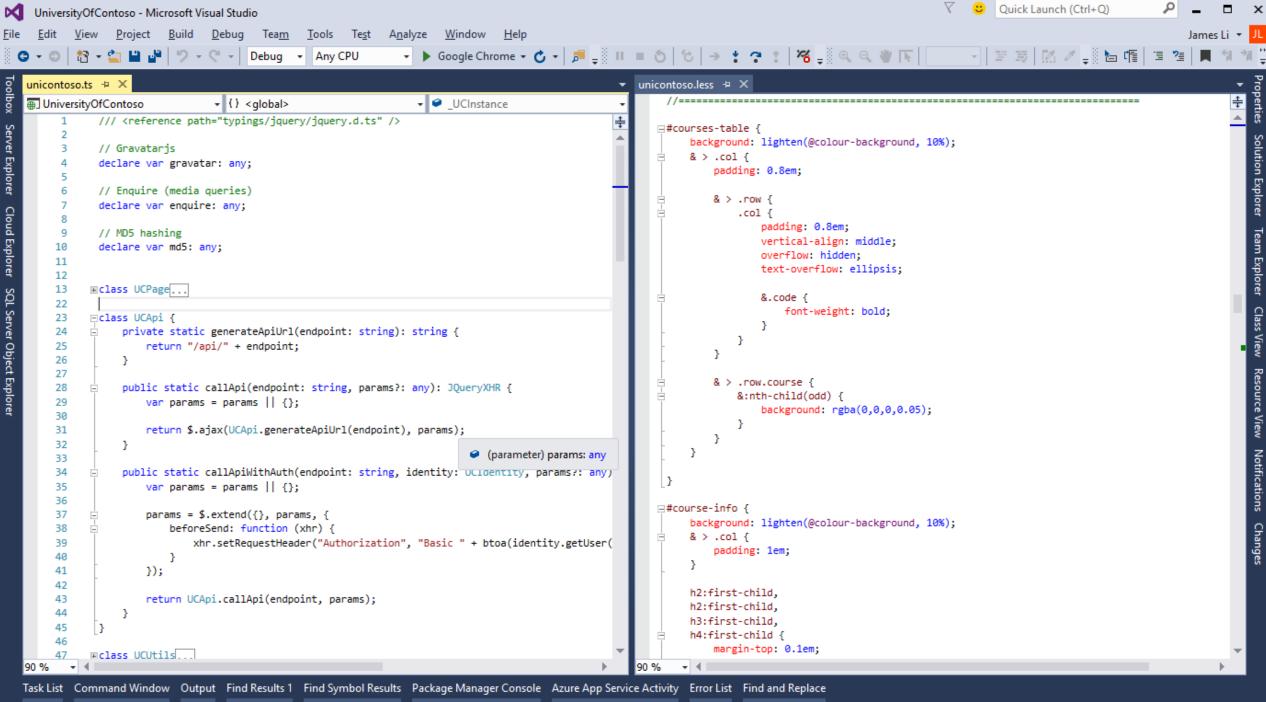
TypeScript 

JavaScript

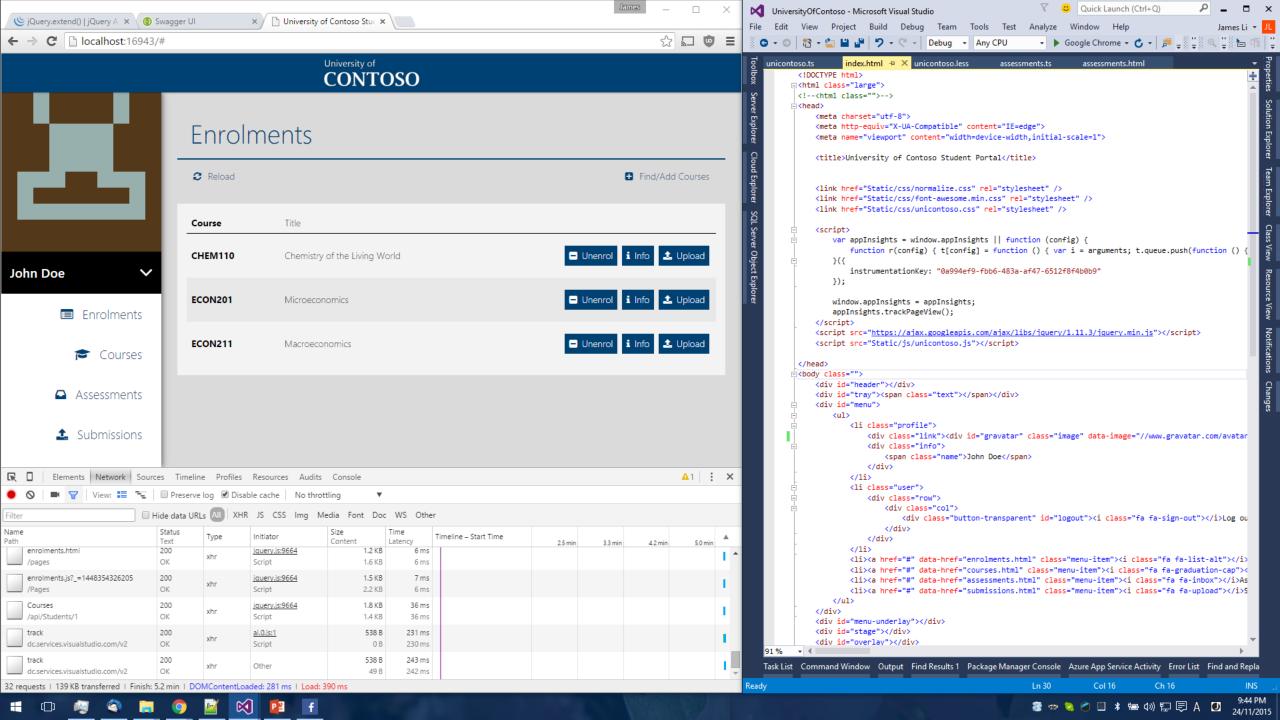
LESS → CSS

jQuery, Application Insights, and three other scripts (hashing and media queries)

Custom logic and responsive design



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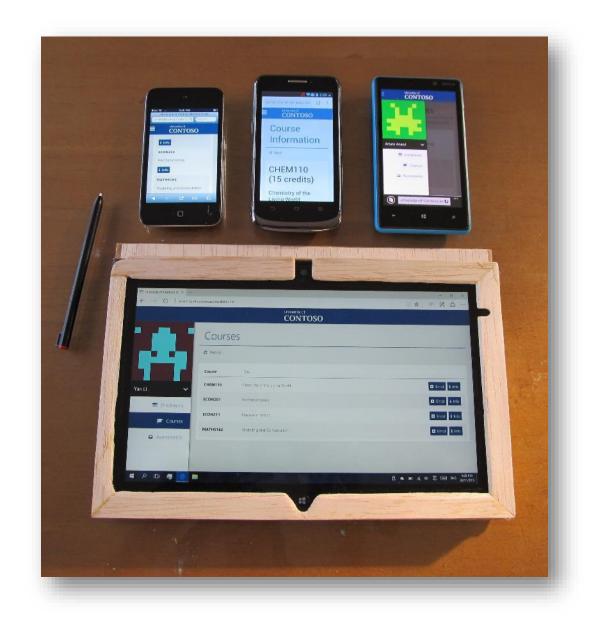
# Day 4 – Finishing up

Final tweaks and bits of code

Publishing onto Azure

Making a ManifoldJS app

Testing



#### Implemented features

#### REQUIRED

- Published on Azure Web Apps
- Allow students to manage courses
- Show relevant course information
- Responsive Design
- Application Insights

#### **ADDITIONAL**

- Let students submit work
- Make mobile app with ManifoldJS
- •Source controlled via. GitHub

#### Questions?

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