REVEALING 5 MYSTERIES OF CROSS-PLATFORM APPS

Zoe Koulouris Augustinos & Peter B Smith
Partners at Upstate Interactive, LLC

INTRODUCTION

Founded in Upstate NY, we are a group of software engineers, entrepreneurs, community leaders, public speakers, and dreamers.

ZOE KOULOURIS AUGUSTINOS

- Partner & Cofounder, Upstate Interactive
- Web and mobile developer
- Certified Scrum Product Owner
- Cofounder, Women in Coding
- CNY's 40 under 40

PETER B SMITH

- Partner & Cofounder, Upstate Interactive
- Web and mobile developer
- Certified Scrum Master
- Ngrx contributor
- Organizer, Syracuse.js

INTRODUCTION

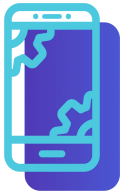
@upstateagency #jsmobileconf

INTRODUCTION

We run an agile software consultancy with the following services...

UI/UX

WEB



MOBILE

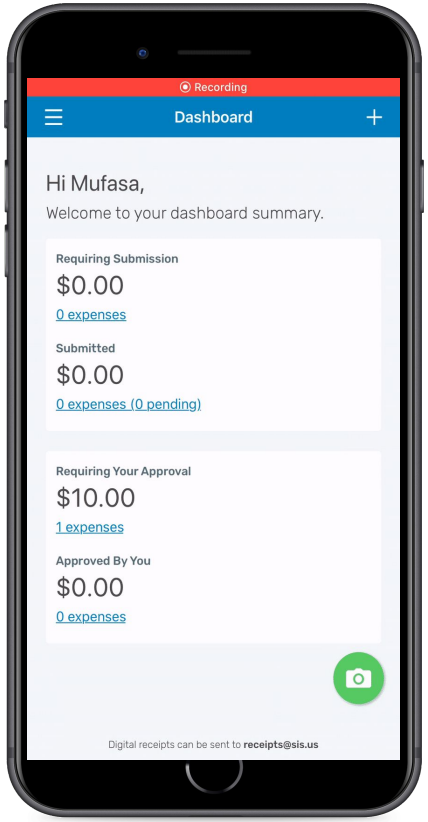
API

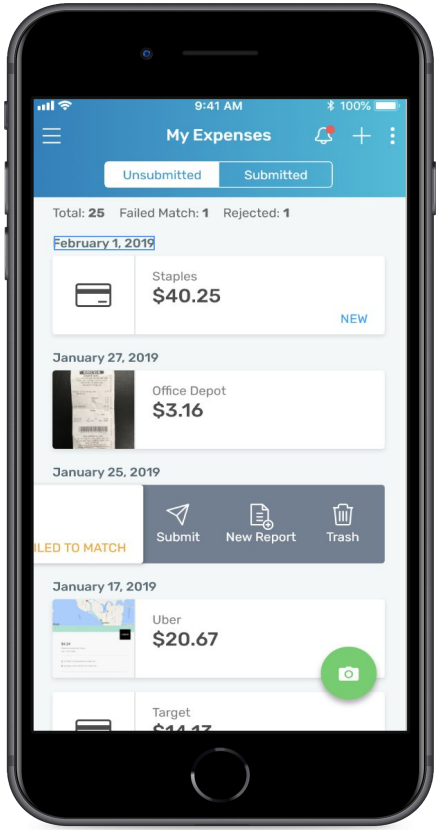
BLOCKCHAIN

INTRODUCTION

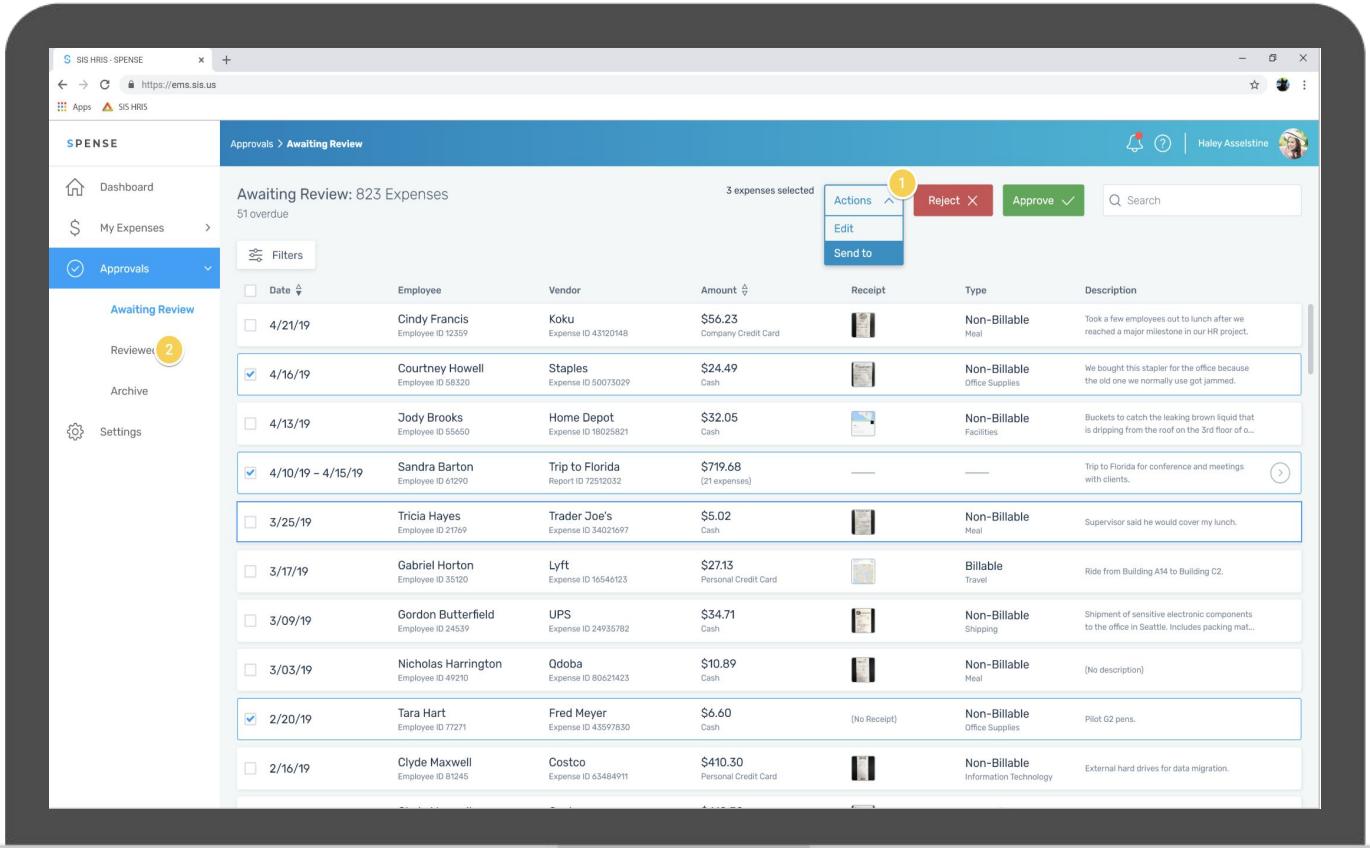
...and **native cross-platform** software development

SPENSE


Recording
Dashboard
Hi Mufasa,
Welcome to your dashboard summary.
Requiring Submission
$0.00
0 expenses
Submitted
$0.00
0 expenses (0 pending)
Requiring Your Approval
$10.00
1 expenses
Approved By You
$0.00
0 expenses
Digital receipts can be sent to receipts@sis.us


9:41 AM
100%
My Expenses
Unsubmitted
Submitted
Total: 25 Failed Match: 1 Rejected: 1
February 1, 2019
Staples
$40.25
NEW
January 27, 2019
Office Depot
$3.16
January 25, 2019
Submit
New Report
Trash
January 17, 2019
Uber
$20.67
Target

SPENSE


SIS HRIS - SPENSE
https://ems.sis.us
Apps
SIS HRIS
SPENSE
Dashboard
My Expenses
Approvals
Awaiting Review
Reviewed
Archive
Settings
Approvals > Awaiting Review
Haley Asselstine
Awaiting Review: 823 Expenses
51 overdue
3 expenses selected
Actions
Edit
Send to
Reject
Approve
Search
Filters
Date
Employee
Vendor
Amount
Receipt
Type
Description
4/21/19 Cindy Francis Employee ID 12359 Koku Expense ID 43120148 $56.23 Company Credit Card Non-Billable Meal Took a few employees out to lunch after we reached a major milestone in our HR project.
4/16/19 Courtney Howell Employee ID 58320 Staples Expense ID 50073029 $24.49 Cash Non-Billable Office Supplies We bought this stapler for the office because the old one we normally use got jammed.
4/13/19 Jody Brooks Employee ID 55650 Home Depot Expense ID 18025821 $32.05 Cash Non-Billable Facilities Buckets to catch the leaking brown liquid that is dripping from the roof on the 3rd floor of o...
4/10/19 – 4/15/19 Sandra Barton Employee ID 61290 Trip to Florida Report ID 72512032 $719.68 (21 expenses) Trip to Florida for conference and meetings with clients.
3/25/19 Tricia Hayes Employee ID 21769 Trader Joe's Expense ID 34021697 $5.02 Cash Non-Billable Meal Supervisor said he would cover my lunch.
3/17/19 Gabriel Horton Employee ID 35120 Lyft Expense ID 16546123 $27.13 Personal Credit Card Billable Travel Ride from Building A14 to Building C2.
3/09/19 Gordon Butterfield Employee ID 24539 UPS Expense ID 24935782 $34.71 Cash Non-Billable Shipping Shipment of sensitive electronic components to the office in Seattle. Includes packing mat...
3/03/19 Nicholas Harrington Employee ID 49210 Qdoba Expense ID 80621423 $10.89 Cash Non-Billable Meal (No description)
2/20/19 Tara Hart Employee ID 77271 Fred Meyer Expense ID 43597830 $6.60 Cash (No Receipt) Non-Billable Office Supplies Pilot G2 pens.
2/16/19 Clyde Maxwell Employee ID 81245 Costco Expense ID 63484911 $410.30 Personal Credit Card Non-Billable Information Technology External hard drives for data migration.

5 Mysteries

Deploying

Shareable Code

Testing

Set Up

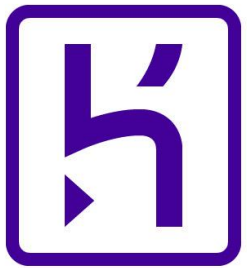
Debugging

Deploying

DEPLOYING: iOS SECURITY

https://ssl.isrequired.com

DEPLOYING: EASY HTTPS



HEROKU

ZEIT NOW

DEPLOYING: MIN. TWO ENVIRONMENTS

dev and production envs

DEPLOYING: CUSTOM WEBPACK

custom webpack env

DEPLOYING: DIFFERENT PRACTICES

skip localhost

Shareable Code

SHAREABLE CODE: UNDER THE HOOD

how **.tns**.ts works

SHAREABLE CODE: SHARED SERVICE

abstract classes

SHAREABLE CODE: CSS, DIPs, SVGs

styles

SHAREABLE CODE: NGRX

ngrx

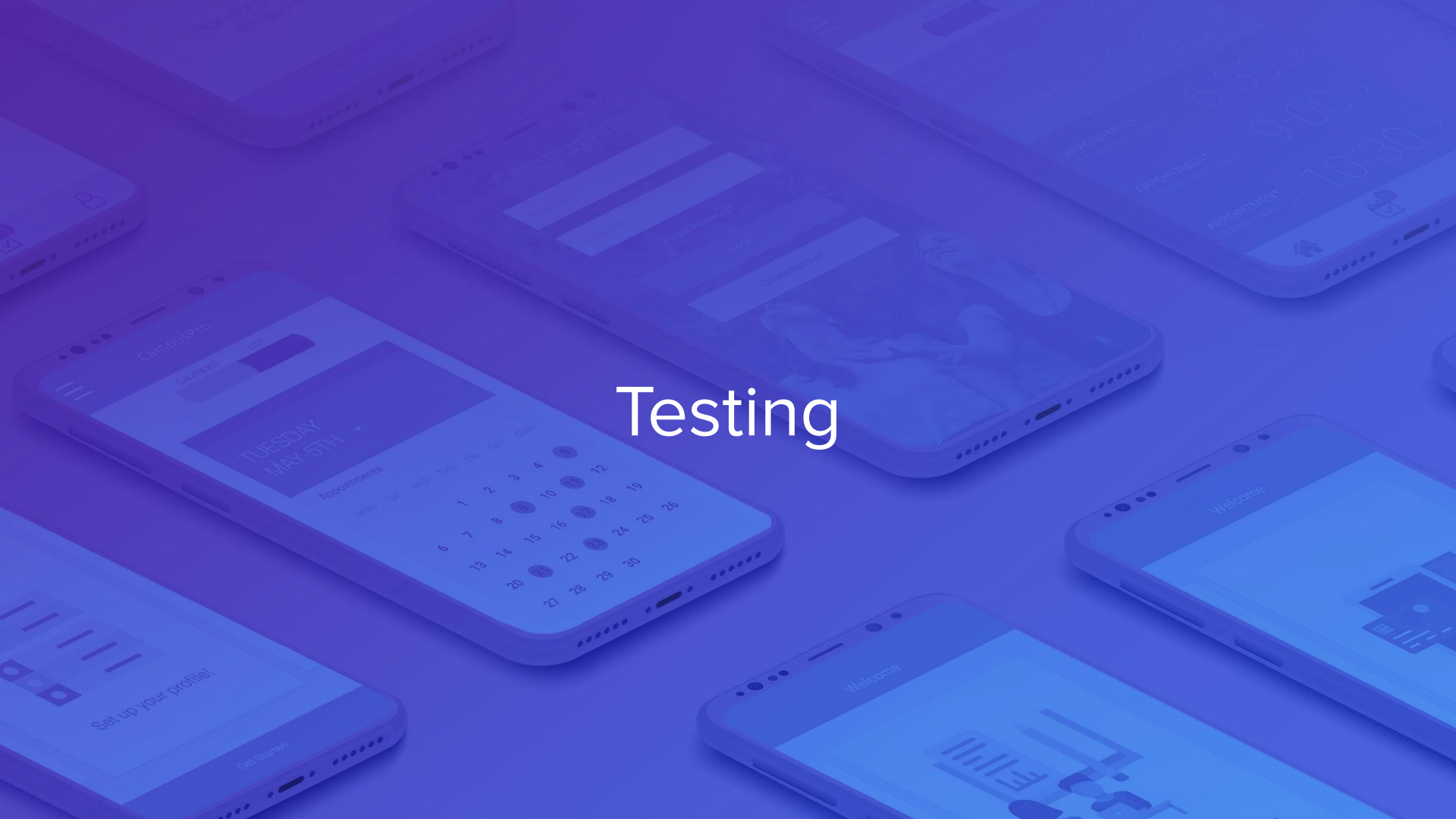
actions

reducers

effects

SHAREABLE CODE: SHARING EFFECTS

effects


Testing

TESTING: 2 DEPLOYMENT COMMANDS

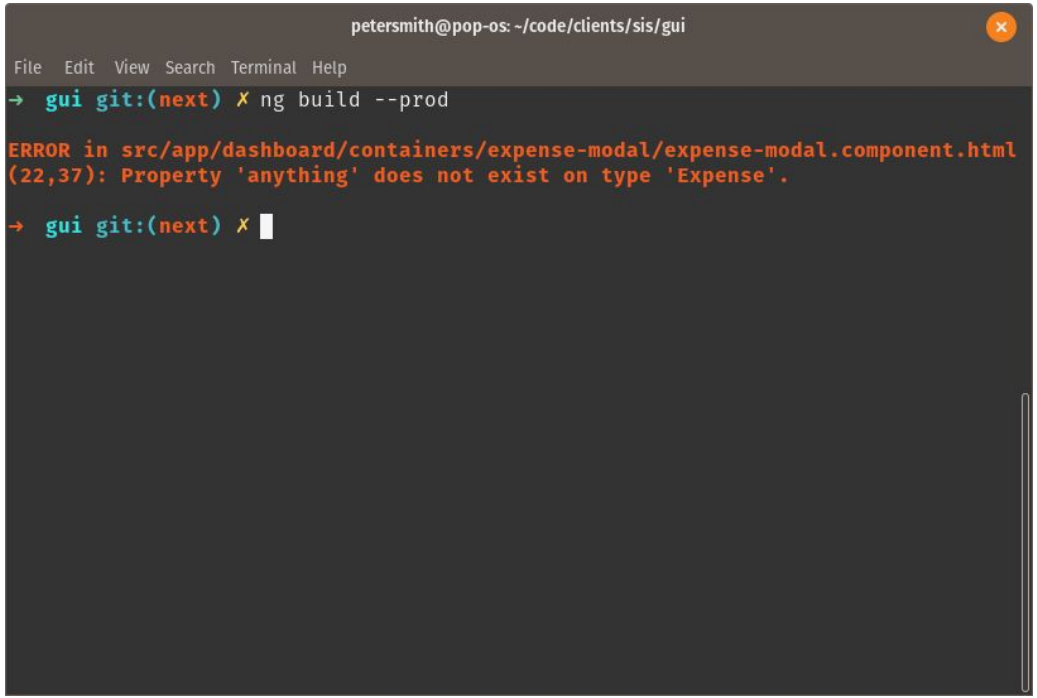
iOS

```
tns build ios --bundle --release --env.production
```

WEB

```
ng build --prod
```

TESTING: A SCREW



Set Up
CampusPro
TUESDAY
MAY 5TH
Appointments
Set up your profile!
Get Started
Welcome
Welcome

SET UP: STRUCTURE

choose a cross-platform structure

Schematics

xplat

SET UP: PROJECT

create cross-platform project

- Easily create a shared project through the CLI
- Shared
  - Routes, services, component classes
- Customize
  - UI layer, NgModules, dependencies
- Build
  - ng serve
  - tns run/build ios/android --bundle

SET UP: DEVELOPER ACCOUNT

Choose apple developer account

APPLE ID

APPLE DEVELOPER PROGRAM

APPLE ENTERPRISE PROGRAM

SET UP: REAL DEVICES

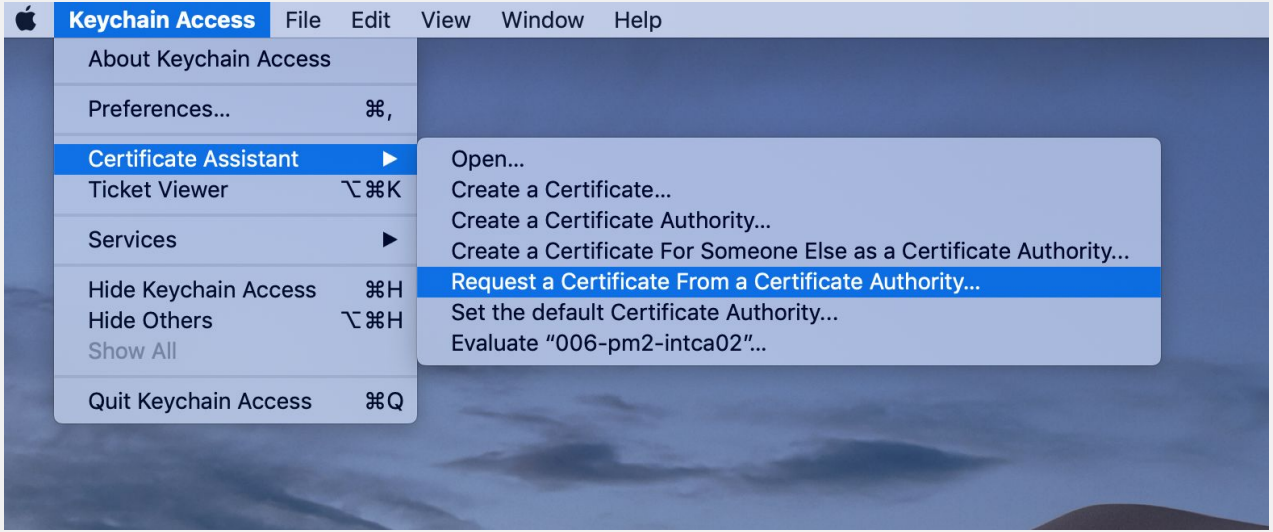
Set team up on real devices with NS Sidekick or Manually

SET UP: REAL DEVICES

1. Certificate Signing Request (CSR)
2. Certificates
3. Identifiers
4. Provisioning Profiles

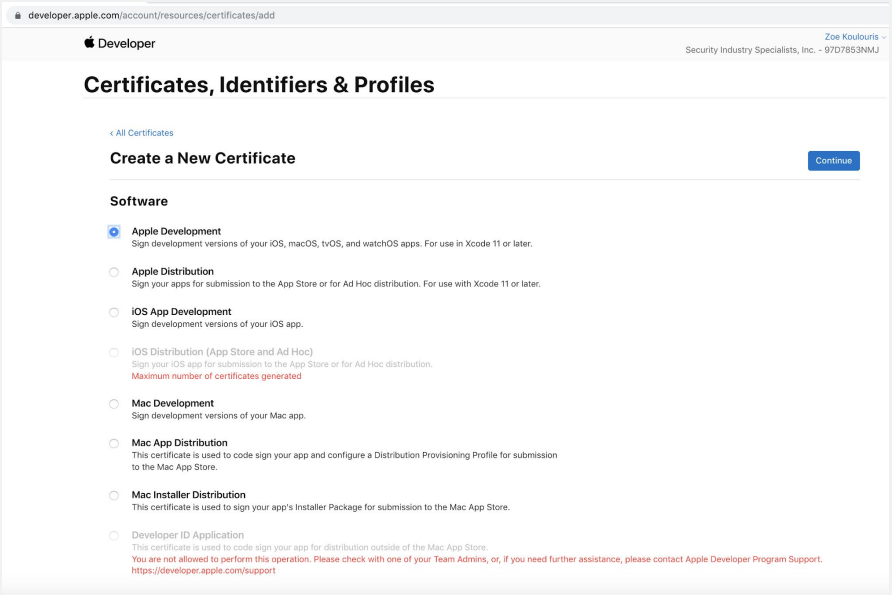
SET UP: REAL DEVICES

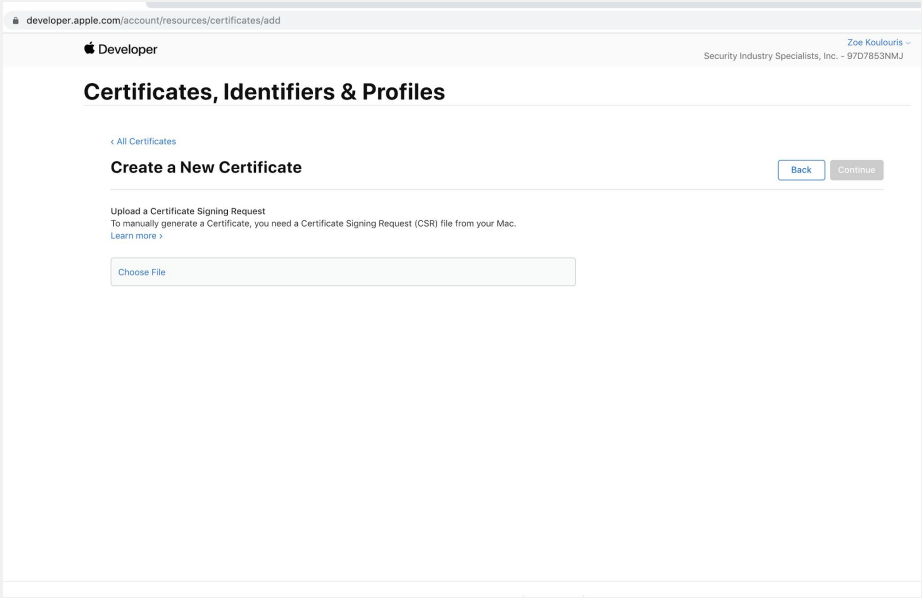
1. Certificate Signing Request (CSR)



SET UP

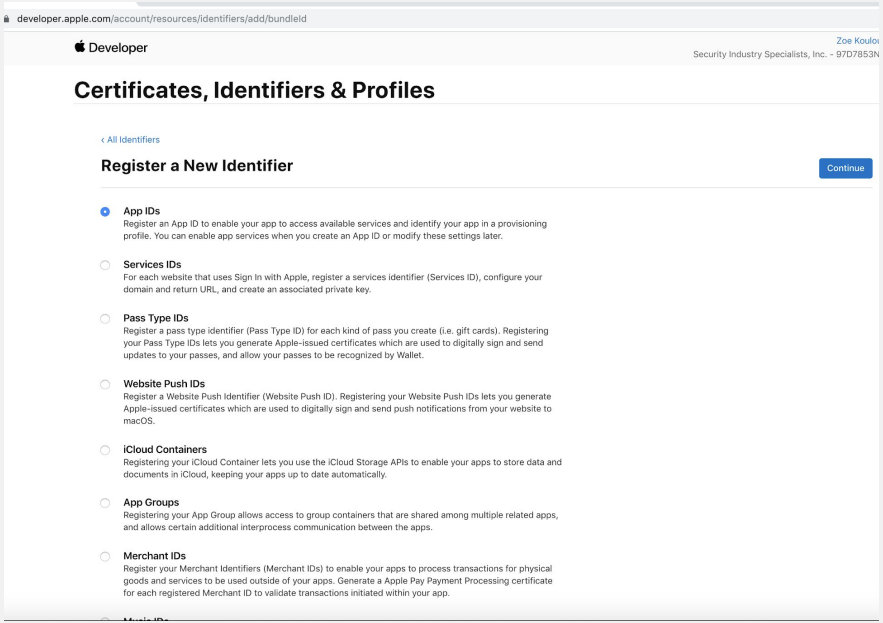
2. Certificates

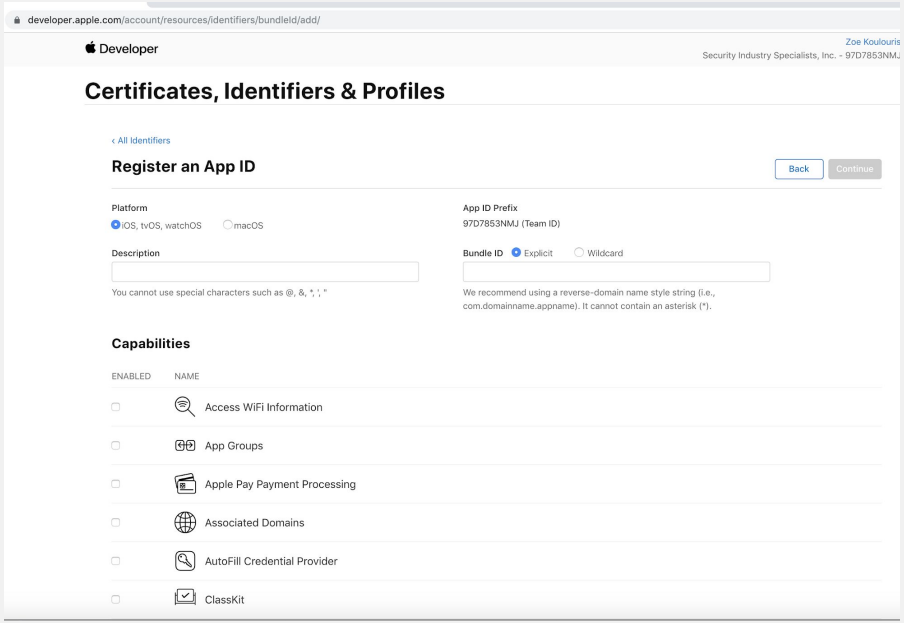




SET UP

3. Identifiers

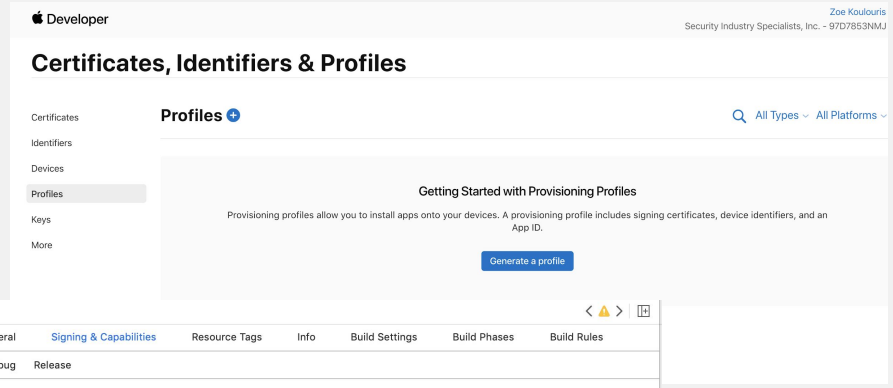


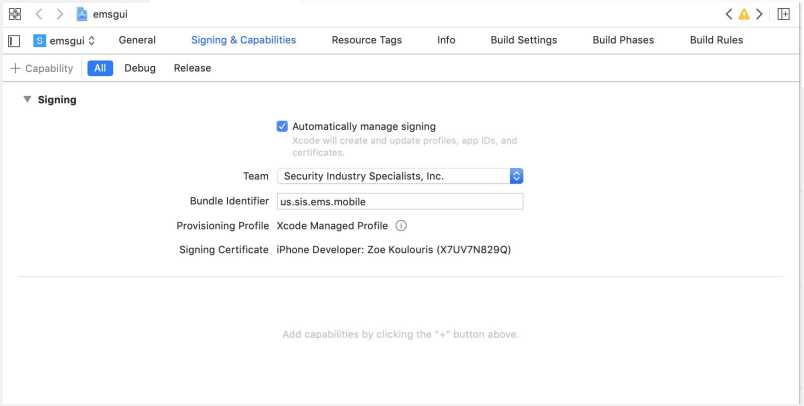


4. Provisioning Profile

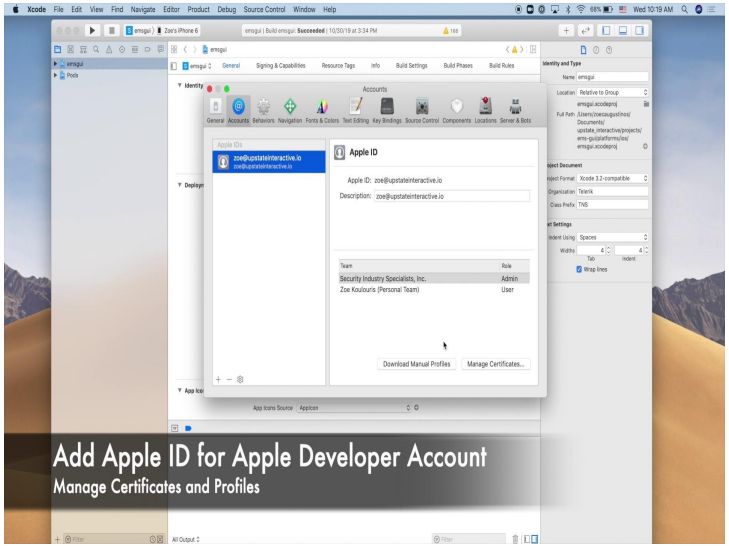
- Generate provisional profile in Apple developer account
- Automatically manage signing in XCode

Tie together App ID, certificate and device





Run project on devices & simulators



Debugging

TUESDAY
MAY 5TH
Appointments
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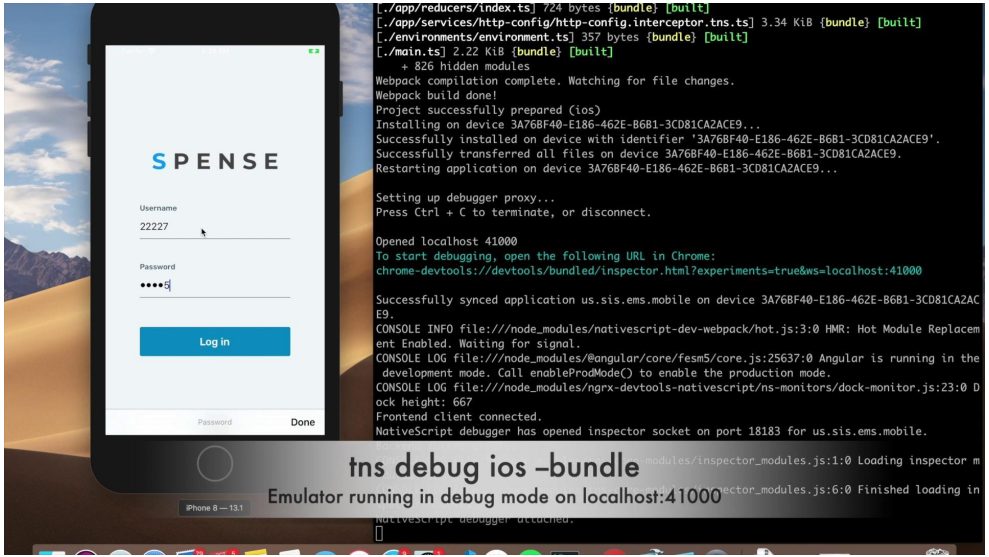
Welcome

DEBUGGING

Debug Ngrx

- MetaReducer, 2017
- CLI, Devtools Plugin, 2019



Conclusions

Technical Conclusions

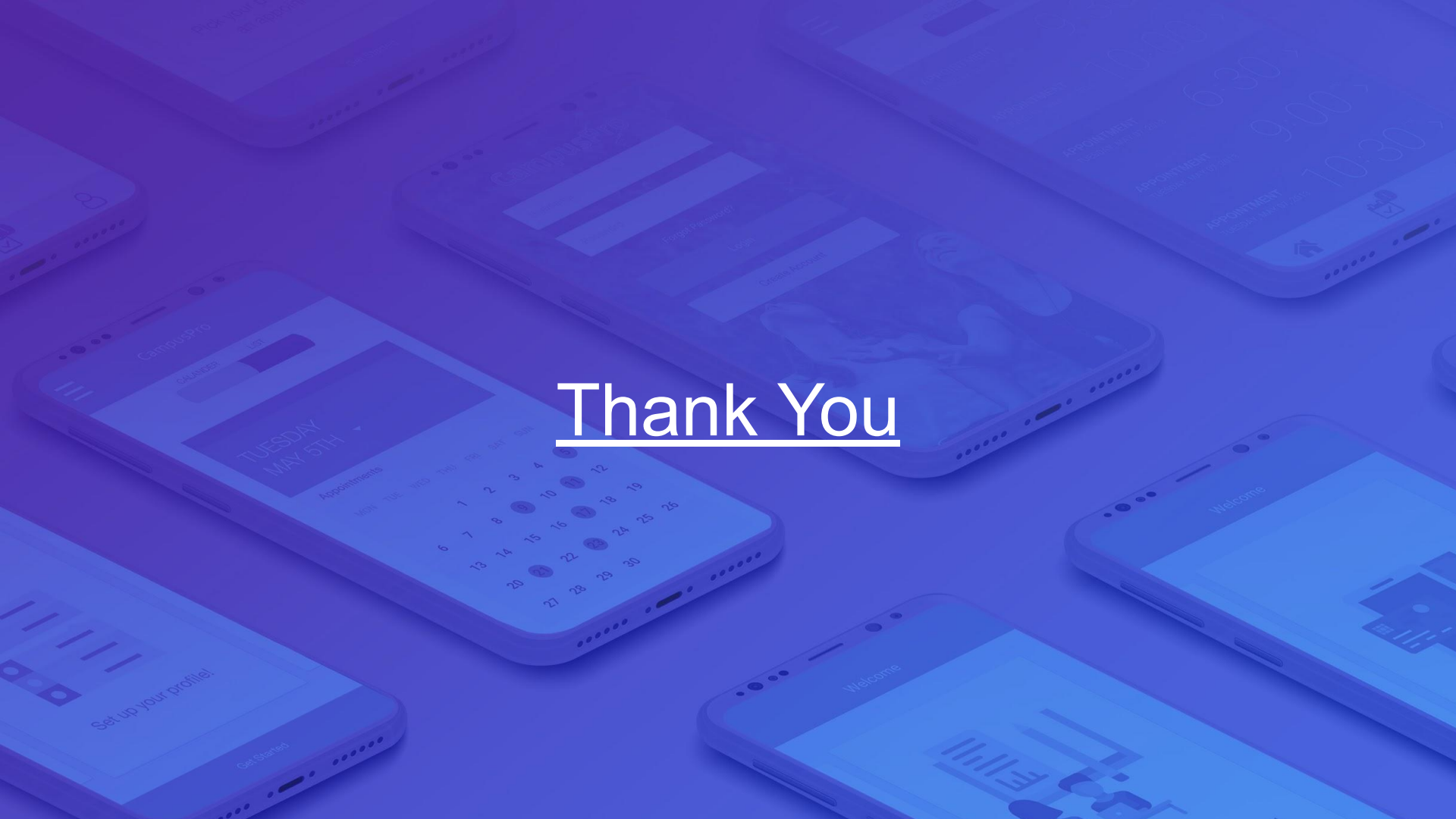
CONCLUSIONS

1. Shared apps are effective
2. Either xPlat or NS Schematics
3. NS 6 is an easy update

Team Conclusions

CONCLUSIONS

1. What app am I building today?
2. Strong Base in Angular / Vue


Thank You