



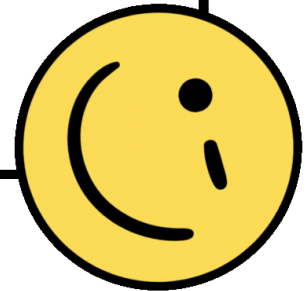


**LOADIN**



Andrew Cawood

# CIRCLE INDEPENDENT



## OVERVIEW



Monash BootCamp

**A Changing World**



● ●  
**Page 2**

# **INTRODUCTION**

- **The Customer is Always Right**
- **The Boss is mostly Wrong**
- **Borrowing a Car is easier than buying one**
- **Everyone Works for themselves**



**We Live in a Changed  
World**



**Circle Independent**





**LOADIN**

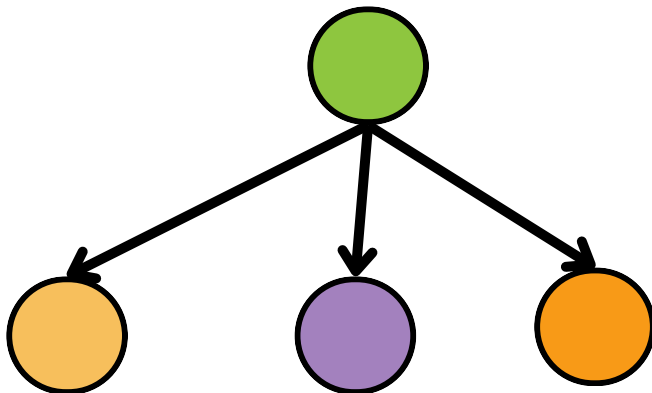
## Distributed Work Places



# RESPONSIBILITY

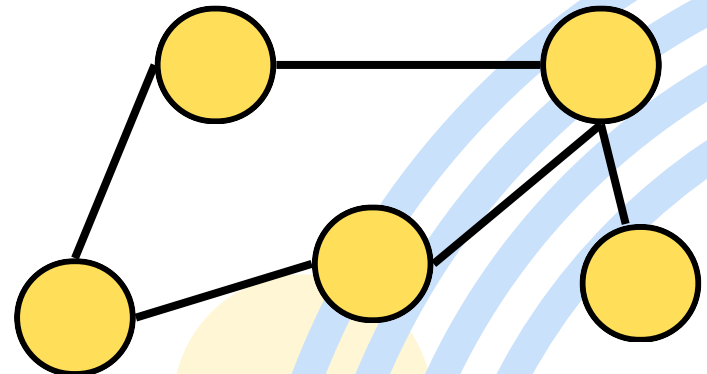
### Traditional Workplaces

- A boss brings in customers
- Hires and fires
- Tells every one whats important.
- Generally gets in the way...



### Modern Work Places

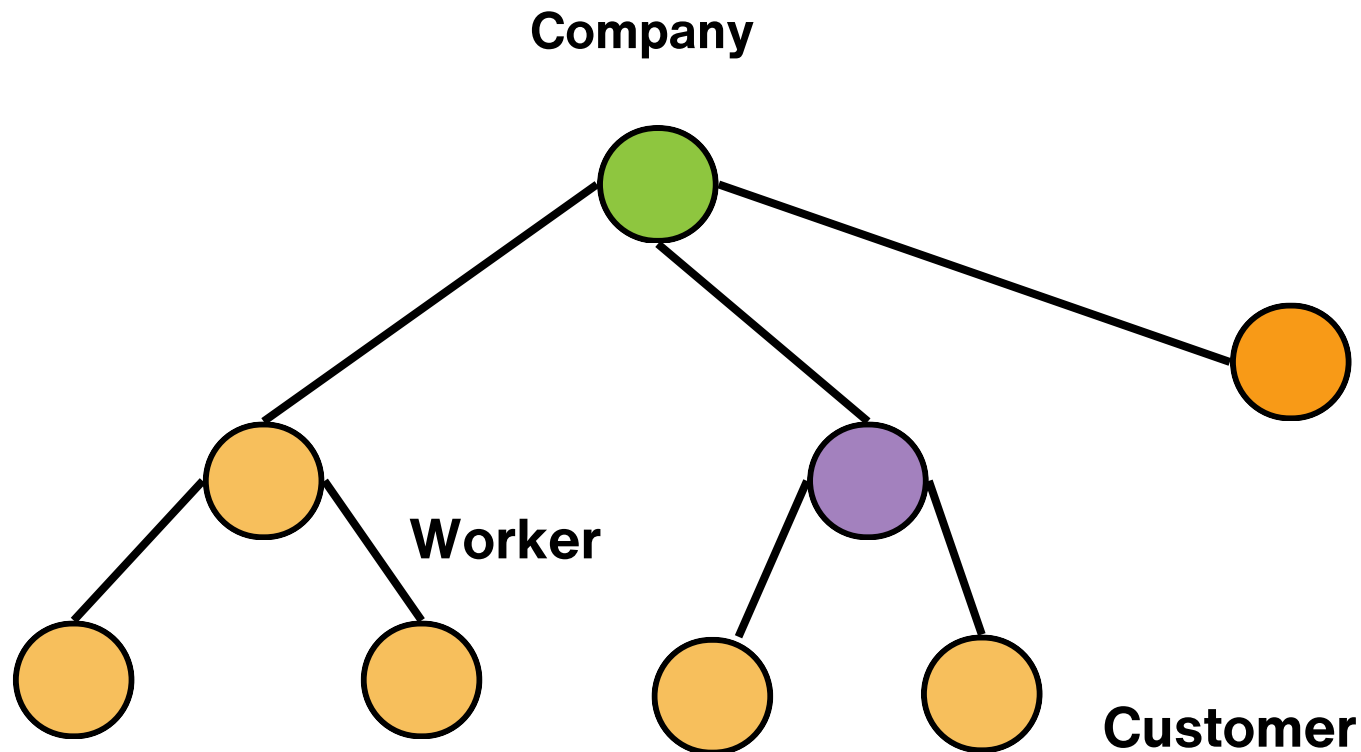
- Increasingly Home Based
- Small Business/Contractor
- Handles the basics: Marketing, Onboarding, Work, Payment,
- The list goes on..



Traditional Workplaces



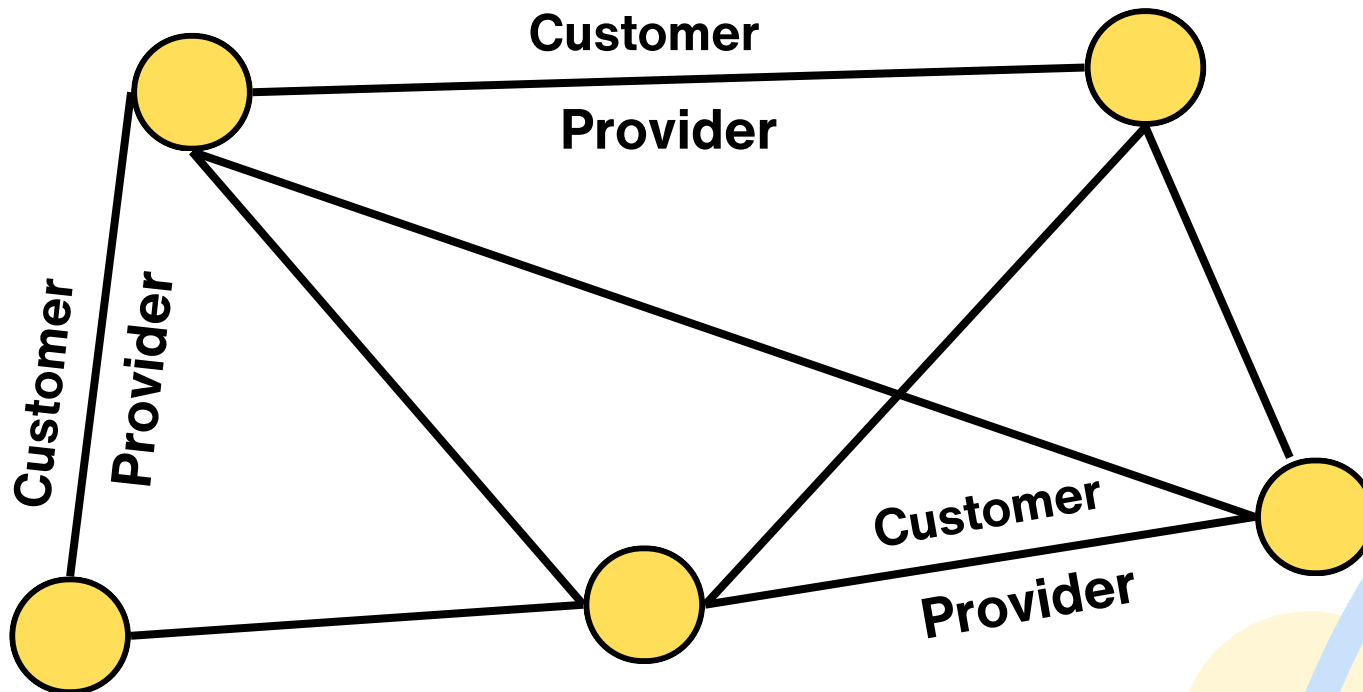
# HEIRARCHY



Distributed Work Places



# PLATFORM







# Knowing The **CUSTOMER**

## Managing the Change...

**Req**

**Res**

Our Client Circle Supports required the development of a platform to support

- Transition of existing staff to Sole Trading businesses.
- Support existing sole trading businesses become compliant with NDIS standards.

What are the significant pain points for new small businesses?

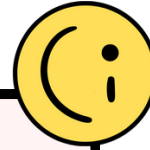
Customer Relationships,  
Managing Payments,  
Web presence  
Marketing?

**How can Circle Help?**



**Disability Services**

# NDIS



**Innovation at a cost**

## Growth

**The growth Rate of  
registered providers of NDIS  
services has risen 10%  
since 2013.**

**Small Companies Competing with  
traditional larger Companies  
Sole Traders**

## But

**The recent NDIS review has  
highlighted significant  
growth in the number of  
unregistered providers,  
which now make up  
approximately 90% of all  
NDIS providers.**



# Knowing The **OBJECTives**

Page 5

## Customers

Customers(people with a disability) want to connect with providers(of supports)  
They want trust in their services  
They want transparency of pricing  
They want to know what to do if things arent right.

### Service Agreement

Agreement on Price and  
Terms

### Shift

A Record of Help  
Provided

### Invoice

A request to Pay

## Provider

A business who connects with Customers using Circle Independent. They want to get paid for the work they do with their customer and they want customers to trust them for the work they do.



# Knowing The **TECHNOLOGY**

**1.** React for responsive  
Front end

**3.** Express Server  
Node JS

**5.** API Integration with  
ClickSend

**2.** Mongoose for Database

**4.** GraphQL

**6.** Future Integration with  
Quickbooks Time Api

# Here is The **IMPLEMENTATION** And Learnings...

## Front First

- A simple uncluttered User Experience
- Testing early
- Deploy Early

## Model Req

- Model Requirements created complexity.
- How to build flexibility early?

## Deploy Early

- Have something to show the test user.
- Use on the tech it will be used on.

**Brute Force!!!!**



**Knowing The**

# **FEATURES**

**EG**

**1.**

**Text Based Authentication and Approval Mechanism**

**2.**

**React Routes handle users visiting prepoulated forms via `/:agreementNumber`**

**3.**

**Interface kept simple depending on use login status**

**3.**

**Administrative Pages facilitate process  
ing of work and invocies**

**Form Initialised**

**Customer Link  
Sent via SMS**

**Customer Signs  
on Glass**

**LETS SEE IT...**







LOADING

Aa ab ■\*

[Open in editor](#)

```

import { useNavigate } from "react-router-dom";
const navigate = useNavigate();
const navigate = useNavigate();
navigate("/");
navigate("/");
navigate("/");

```

Provider.jsx client/src/pages

```
import { useNavigate } from "react-router-dom";
const navigate = useNavigate();
const navigate = useNavigate();
!agreementNumber ? navigate("/") : "";
!agreementNumber ? navigate("/") : "";
navigate(
```

```
import { useNavigate } from "react-router-dom";
const navigate = useNavigate();
const navigate = useNavigate();
navigate("/");
navigate(
} else navigate("/customer");
```

zsh + v [icon] [trash] ... ^ x

```
Writing objects: 100% (7/7), 540 bytes | 540.00 KiB/s, done.
Total 7 (delta 6), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To github.com:cawooda/circle.git
fd90afc9..0684746e main -> main
andrewcawood@Andrews-MBP-2 circle-project3 % git add .
andrewcawood@Andrews-MBP-2 circle-project3 % git commit -m "stop changing"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
andrewcawood@Andrews-MBP-2 circle-project3 % git push
Everything up-to-date
andrewcawood@Andrews-MBP-2 circle-project3 % git run develop
git: 'run' is not a git command. See 'git --help'.

The most similar command is
prune
andrewcawood@Andrews-MBP-2 circle-project3 % npm run develop
```



LOADING

# Melbourne

## 9°



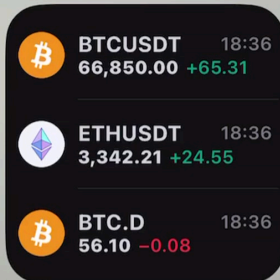
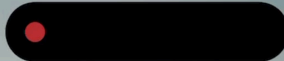
### Mostly Clear

L:5° H:14°

## Weather



6:46



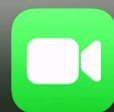
TradingView



Swyftx



Weather



FaceTime



Calendar



Photos



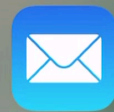
Camera



Settings



Slack



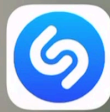
Mail



Notes



Authenticator



Shazam

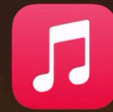
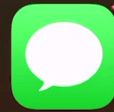


Clock



ShareLearn Yoga

Search



TUE

# 30

## Calendar



## Camera



Customer

Logout

You have a new

# Service Agreement

with

## Acme Electronics

ABN:2589563615

End Date

02/02/1732

Customer

Andrew --

NDIS Number

5265725303

Product

CB:Innovative Community Participation

Quantity

34

Total Cost

0

Submit

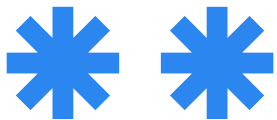


## Future Development

Sign on Glass -> pdf generation

Conversion of Existing Timesheets  
from Quickbooks to Moon Invoicing

Load Limiting on new users and  
SMS requests



ANDREW CAWOOD



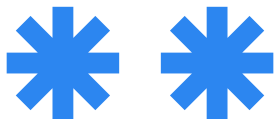


**CIRCLE INDEPENDENT**



**THANK YOU**

**FOR YOUR ATTENTION**



**ANDREW CAWOOD**

