Task Type	Task Name	Notes
	NB. All tasks denoted Backlog must be attempted before attempting Stretch tasks	
	Where tasks do not fit your project idea, replace with a reasonable alternative	
Backlog	Login Functionality	
Backlog	Landing Screen	
Backlog	Create Account Functionality	
Backlog	Inventory Screen	
Backlog	Inventory Search Functionality	
Backlog	Increment/Decrement Inventory Functionality	
Backlog	Delete Inventory Functionality	
Backlog	One Additional Screen	
Backlog	One Additional API	
Backlog	One Additional Functionality	
Backlog	Custom Alerts for Errors/Messages - avoid JS alert()	
Backlog	App Published to Testflight	
Backlog	Responsive Design (ie. Views Scale Correctly for Various Screen Sizes)	
Backlog	Highlight Item when Stock at 0	
Backlog	UI Design Hosted Online (Balsamiq, draw.io etc)	
Backlog	Hosted React Landing Page, Describing App (Netlify, etc)	
Stretch	One Native Code Integration (eg, Google Maps)	
Stretch	Ability to Download PDF of Stock Levels	
Stretch	Volunteer/Employee Signup	
Stretch	Volunteer/Employee Profile	
Stretch	App Published to Play Store on Internal Testing Track	
Stretch	Email Alerts to Admin when Stock Reaching 0	
Stretch	Write Unit Tests (Jest, etc)	
Stretch	Write End to End Tests (Detox, etc)	
Stretch	Integrate Fastlane for Testflight	
Stretch	Integrate Fastlane for Google Play Testing Track	
Project Ideas	Environment eg. App to track personal/group carbon emissions	
Project Ideas	Healthcare eg. Dieting/fitness app	
Project Ideas	Transport eg. Online shop for an e-skateboard brand	
Project Ideas	Not For Profit eg. Inventory app for a soup kitchen	
Project Ideas	Ecommerce, eg. Online marketplace	
Project Ideas	Design, eg. Design app for an existing brand	
Project Ideas	EV Melbourne Charge Points on a Map	Mobile and web based app that allows those with electric vehicles (EVs) to power their boards. Can be public charge points, cafe's that have given permission, hotels etc. Inspiration: https://nyceboarding.com/map.html Next level ideas: Deals and discounts at businesses with charge points Suggest charge points for verification by admin team Number of points available Weather suitability Hours of access Photos of where to find it Who to ask for Sharing specific points when on rides with others
Project Ideas	Set & Forget Bill Payments	Problems Bills come in (normally via email) and are either ignored or a challenge to schedule for payment. Billers these days provide large penalties for not paying on time, however provide incentive to pay before the due date. Billers are not sure if their bills are getting to customers via email. People (and businesses) use different payment methods and accounts depending on what the bill is for. Solution A convenient app on your Android or iPhone you drag bills on to that scans and schedules payments for you. You can set up frequency of payments, payment methods and reminders. You can get bills sent to billy from your providers to your unqiue email inbox (email address). If the bill is new, simple steps get your bill organised. You can track your expenses and also be notified if bills seem a little unordinary. We will in the future let you know if you may be paying too much for certain services (and label you a rockstar if you are paying great rates)! You will be notified 1 hour before a bill is paid so you can cancel if it need be. Nice huh! As our system gets more and more bills through, it will become faster and more accurate. You can also view all your paid bills easily, bring up the bill itself and how you paid. Future updates will allow you to query bills directly in the app to your providers - no calls, no emails, no mess.
Project Ideas	Enertion Electric Skateboard App	An Enertion electric skateboard will be available on the day for testing Ideas: Receive data from Enertion board and create data readouts to display telemetry https://github.com/EnertionBoards/FOCBOX_UI/blob/FOCBOX_UI/commands.cpp lines 121 and 301 to see how the telemetry data is requested from the board and received by the application. Build utility to correctly encode/decode packets sent to/from board Each packet sent between the board and the app must be signed with checksum, see: https://github.com/EnertionBoards/FOCBOX_UI/blob/FOCBOX_UI/packet.cpp for structuring of packets. Measure carbon offset via personal electric vehicles eg. https://github.com/OpenDataHack/Can-you-beat-the-average- https://github.com/AOSSIE-Org/CarbonFootprint-Mobile
Project Ideas	Pixels Arcade app	Build a NFC app and wallet for Apple and Google wallet to work with the i3 Intercard See: https://github.com/search?q=intercard

TL;DR

Develop an application to facilitate the transactional process of giving away unwanted household items.

Summary

Create a simple, quick and easy to use application that displays information on an unwanted (free) household item from a "packer" (user offering a free item), which a "pickers" (user requesting free item) could contact the "packer" to come and pick up the item. Incentivising community up-cycling/free-cycling and promoting environmental issues around waste management.

Problem

Waiting for, or booking a council hard-rubbish pick-up can be time consuming. Storing your unwanted items for a mass pickup is inconvenient. Listing your unwanted low value items on auction sites takes patients. A solution is needed to quickly free-cycle your unwanted household items that is safe and secure.

Key Features/Functionality

- Accounts
  - Type
    - Packers (user offering item)
    - Pickers (user requesting item)
  - Username
  - Email
  - My items
  - Saved items
- Social integration
- Registration/Login
- Inbox for messages
- Search
  - Location/Postcode
  - Term
- Listings
  - Image/Title list
  - Map
- Categories
- Item
  - Image
  - Title
  - Location
  - Description
  - Available times

Implementation Considerations

- You are free to implement in your chosen language/framework/architecture and use and existing APIs/libraries if licence permits.
- Unit testing
- Think about the transactional process, limit exposure of personal information
- A "packer" must be able to re-list item if transaction fails
- Taking action on users that are repeatedly unreliable should be considered
- Design will not be a judging consideration, however there should be a functional and thoughtful user interface

Project Ideas	Free-cycling platform
Project Ideas	Anything else you like - come grab an organiser on Saturday to discuss

You might find it useful to set up a kanban-style board on trello.com or some similar service, for your team, eg:

Stretch	Backlog	In Progress	Finished
One native code integration (eg, Google Maps) - Eject Expo if required	Landing screen	+ Add a card	+ Add a card
Ability to download PDF of existing stock	Login functionality		
Volunteer profile signup	Create account functionality		
App published to Play Store on internal testing track	Inventory screen		
Email alerts to admin when stock reaching 0	Inventory search functionality		
Write unit tests (Jest, etc)	Add inventory functionality		
Write end to end test (Detox, etc)	Increment/decrement inventory functionality		
Integrate Fastlane for Testflight	Delete inventory functionality		
Integrate Fastlane for Google Play testing track	One additional screen		
+ Add another card	UI design hosted online (eg. Balsamiq, Draw.io)		
	One additional API		
	One additional functionality		
	Custom alerts for errors/messages (avoid JS alert())		
	App published to Testflight		
	Responsive design (font/View size		
	+ Add another card		