# Meetings

## Meeting 1/3/22

### Agreed upon in meeting:

* Develop an app for Android.
* Quite a lot of the work will have to wait until we’ve seen more lecture material.

### Tasks to be completed by next week:

* Researching the different routes to the different castles, including timetables.
* Start thinking about visual design of the app: main menu screen/other pages. Maybe consider other transport apps.
* Consider branding of the app: colour schemes, logo, name etc.
* Could start to create an ER diagram using PowerDesigner.

### Other information:

Good set of resources online for learning to create android app.

* <https://developer.android.com/training/basics/firstapp>
* <https://www.codecademy.com/learn/paths/introduction-to-android-with-java>

### Next meeting:

Agreed to wait until more information provided from lectures.

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# Requirements

* Make account with username and password
* Information page on each castle
  + Amenities nearby
* App should allow users to plan a day trip to local castles
  + Selection from following:
    - Pick date and time for outbound (by default uses current time or can change if user prefers)
    - Pick time for return
    - Pick castle
    - Pick departure place
    - Pick number of people
    - Exclude certain types of travel (train/bus)
  + Search results show:
    - Methods of transport used
    - Price
    - Link to castle information
  + Sort by time taken/price/leaving soonest
* App should provide accurate trip information based on bus timetables
  + (Ext) provide dynamic timings using external API
* App should provide trip prices, including:
  + Cost of castle
  + Cost of outbound trip
  + Cost of return trip (or overall return ticket if relevant)
  + (Ext) Possibility for user to pay using Horsepay

Day trip required information:

* Bus routes (operator, departure time, arrival time) required from either:
  + Newcastle Haymarket Bus Station to
    - Alnwick Castle
    - Auckland Castle
    - Bamburgh Castle
    - Barnard Castle
  + Newcastle Eldon Square Bus Station to
    - Alnwick Castle
    - Auckland Castle
    - Bamburgh Castle
    - Barnard Castle
  + Newcastle Central Train Station to
    - Alnwick Castle
    - Auckland Castle
    - Bamburgh Castle
    - Barnard Castle

Things to research by Monday 6th March:

* Bus and Train numbers/times (Harry A)
  + Cost
  + Outbound times
  + Return times
* Castles (Tian, Dennis)
  + Prices
  + Local amenities (shops, restaurants)
  + Quick history/biography of castle
  + How far from bus stop/train station when walking
  + Opening times/closing times
  + Disabled access?
  + Phone number
  + Link to website
  + Open on maps
  + Peak times/off peak times
* Other similar apps (Song, Harry H)
  + What works well on interface?
  + Design style
  + Apps to research:
    - Google Maps
    - BusTrack
    - CityMapper
    - + any others
  + What screens/pages should be available on the app
  + What sort of interactions are needed?
* Research firebase and noSQL, android studio (Oli)
* Look at existing journey planning apps/websites etc. Analysis section of other apps will need to include this rationale (positives and negatives), particularly if they are not listed in the brief.
  + Do they offer only buses from one company etc?
  + Only covering particular areas?
  + Targeted as specific activities?