Tools and Technologies

Software Licenses:

* Figma
  + Figma is free-to-use on Starter plan for personal or business use, but for a commercial project like ours we will probably need access to a Professional plan (Figma.com, n.d.).
    - This is available on a subscription basis at $12USD per editor/month, and is paid annually (Figma.com, n.d.).
  + Prior experience: Josh
    - Uni-based. Wireframing, prototyping and animated effects of UI interfaces.
* GTerm by Gayan Wijesinghe at RMIT
  + Unsure of licensing rights. Access given to RMIT students for assessments. Would assume we would develop directly in Java with further experience and this would become redundant.
  + GUI application windows created via System.out.println-like statements (Wijesinghe, 2021).
  + Used in conjunction with Java to create basic program prototype to represent what our dating app user profile page (and future pages) could look like.
  + Prior experience: Jack and Steph
    - Uni-based entry-level experience completed at RMIT through Introduction to Programming.
* Java 8
  + This license (OTN License Agreement for Java SE) permits personal use, development, testing, prototyping, and demonstrating at no cost (Oracle.com, 2021).
    - To be used for project, we would need to switch to the Oracle Java SE Subscription to use it for commercial use. It has a yearly subscription cost of £237.66 per unit, which is approximately $432.53AUD as of 9/5/2021 (Xe.com, 2021) and includes access to the full Java SE Licensing with Desktop, Server and Cloud support (Oracle.com, 2021).
  + Prior experience: Jack and Steph.
    - Uni-based entry-level experience completed at RMIT through Introduction to Programming.
    - Used in Jack’s basic program prototyping.
* Java Oracle JDK 15
  + This license (OTN License Agreement for Java SE) permits personal use, development, testing, prototyping, demonstrating at no cost (Oracle Store, 2021). Therefore, the licensing requirements are the same as the above for Java 8.
  + Prior experience: Jack and Steph.
    - Uni-based entry-level experience completed at RMIT through Introduction to Programming.
* Java SE Runtime Environment 8
  + Same licensing requirements as Java 8 and the Java Oracle JDK 15 as it is can be downloaded in the same package as the JDK for convenience (Oracle Store, 2021).
  + Prior experience: Jack and Steph.
    - Uni-based entry-level experience completed at RMIT through Introduction to Programming.

Programming languages:

* Swift 5.4
  + Default version that is include in Xcode 12.5. It is free to use, and open-sourced, under the Apache License 2.0 (*About Swift. The Swift Programming Language*, n.d.).
  + Prior experience: None.
* Python 3.9.5
  + Free to use under the Python Software Foundation License. It is developed under OSI-approved open-source license, and allows the distribution of commercial work (*About*, 2021).
  + Prior experience: Steph.
    - Uni-based experience completed via ECU BCrInd.
* HTML 5
  + Prior experience: Jack, Josh, Liam, Mia, Sean, Steph.
  + Uni-based entry-level experience completed at RMIT through Introduction to Information Technology (all), ECU BCrInd (Steph).
* CSS3
  + Prior experience: Jack, Josh, Liam, Mia, Sean, Steph.
  + Uni-based entry-level experience completed at RMIT through Introduction to Information Technology (all), ECU BCrInd (Steph).

Database

* MySQL
  + We will be using the MySQL Database Software in conjunction with a web server provided through the Amazon Aurora AWS, and therefore will not be required to purchase a separate MySQL license (*Amazon Aurora MySQL Features,* n.d.).
  + Prior experience: none.

IDE

* Eclipse IDE
  + Free to use, open-source software licence via the Eclipse Public License (Milinkovich, 2005).
  + Prior experience: Jack and Steph.
    - Uni-based at RMIT through Intro to Programming.
    - Used in Jack’s prototyping.
* Xcode 12.5
  + Free to use, open-source software. To use its features in full and distribute our app on the Apple App Store, we are required to be part of the Apple Developer Program, which is $99USD per year (*Xcode and Apple SDKs Agreement*, 2019).
  + Prior experience: none.

Platform SDK

* iOS SDK
  + To allow for development of mobile applications on Apple’s iOS operating system in combination with Xcode and Swift (*What’s New in the iOS SDK,* n.d.)
  + Prior experience: none.

Web Server/Cloud Storage Options

* Amazon Relational Database Service (RDS).
  + Used in conjunction with Amazon Aurora MySQL Database at a pay-as-you-go service with no upfront costs or licensing fees (*Amazon Aurora Pricing*, n.d.).
  + Storage and I/Os are charged per request and will be billed on a prorated monthly basis (*Amazon Aurora Pricing,* n.d.).
  + Prior Experience: none.

Payment Gateways:

* PayPal
  + To accept and process secure payments from subscriptions, and store customer and payment information easily for future or reoccurring payments (*PayPal Commerce Platform for Business,* n.d.).
  + Prior experience: none.
* Stripe
  + Secondary payment gateway, accepting payments through third-party integration (*Stripe Payments: Complete Online Payment Platform Toolkit*, n.d.)
  + Prior experience: none.

Location Services

* GPS
  + Built into the user’s phone.
  + Prior experience: none.
* MapKit
  + The iOS framework integrates with MapKit.
  + Free to use, open-source software. To use its features in full and distribute our app on the Apple App Store, we are required to be part of the Apple Developer Program (*MapKit. Apple Developer Documentation*, n.d.).
  + Prior experience: none.