**Project Proposal Document – Patchwork Love**

**Executive Summary**

Our service is a dating website. It is themed around stuffed animals, and all the profiles are stuffed animals, that way development is fun. The problem we solve is loneliness and the chronic lack of connection and coziness that faces society. Users will be experiencing the formula pioneered by Tinder of swiping through profiles until you get a match, then the conversation begins.

**Targeted User Base**

Our user base will be stuffed animals looking for love. Our app will make finding stuffed animal partners easy for our users, and we want to attract a large variety of stuffed animals to provide a nice pool of users to match with each other, which will also encourage stuffed animals to use our service.

**Technical Summary**

* Our front end will be built in React; components will be in Typescript.
* Our gateway will hopefully be Kong cloud gateway, but if that proves too challenging, we will use Ocelot.
* Our discovery service will be Eureka unless Kong has discovery service capabilities.
* Our APIs and email service will be built in Python and C#
* Our APIs will submit notifications to a Kafka event stream, then the email services will send those notifications as emails.
* Our user database will be in Microsoft SQL
* Our profile and match databases will be in MongoDB.

**Team Members**

* Alex Bates – React, Python, Docker
* June Seals – Eureka, C#, Python, Docker

**Business Requirements**

* **Core**
  + Front end users can match and message with other stuffed animals.
  + A user may create a profile including an image, pronouns, description, name, age, and interests.
  + Users must both like each other to see messages. When liking another user, a message must also be sent with it.
  + Users will receive e-mail notifications when they receive a message.
  + Users may “swipe” profiles to view other profiles.
  + Users will be shown to other users based on their preferences.
  + After a user “swipes” a profile away, it will not be shown for a while.
* **Stretch**
  + Accounts will be protected with two-factor authentication.
  + Users may upload multiple photos to their profile.
  + Messages can include attachments