

Steamy: The mobile, intuitive dating app!

Section 1 Introduction to mobile application

Steamy is a dating app that makes making connections simple and easy. The app creates connections between mobile users based on their personality, interest and location by matching them through a refined algorithm. With our Steamy app, you obtain a fresh approach to dating apps; striking a balance between engaging social interaction and privacy. Relationships can be more than a quick swipe; our app will bring together people who genuinely connect on shared interests and values, focusing on their qualities.

The app will feature a match swiping feature, registration and profile customization, basic chat feature and match saving for profiles. The matches will use the device's native location feature to estimate the location of other matches, ensuring they happen within the allocated radius. Matching occurs when location, interests and other such parameters have been fulfilled.

The problem with previous apps on the market is their lack of focus on personal interests and hobbies of users - most of the time only location matters when a match is suggested. We aim to find matches based on relevant metrics in users (such as interests, hobbies, availability) and therefore make the experience more fulfilling and streamlined.

Section 2 Targeted user/customer :

The following is potential user experiences with the app:

User persona 1: Pedro the professional

Name: Pedro Lopez

Age: 38

Gender: Male

Occupation: Marketing consultant

Location: Urban (New York City)

Personality traits: Impulsive, adventurous and ambitious.

Relationship goals: Long term relationship but open to casual dating.

Needs expectations from the app:

- Find people with similar interests and career ambitions.
- Save his time on incompatible matches.

User persona 2: Maria the busy single parent.

Name: Maria Turner

Age: 35

Gender: Female

Occupation: Nurse

Location: Suburban (Austin, Texas)

Personality traits: Family oriented, caring and ambitious.

Relationship goals: Serious, Long term relationship.

Needs expectations from the app:

- Find someone to spend her life with
- Connecting with individuals who value family and long-term commitments.
- Seeking reliable and matching options suited to her busy schedule.
- Prioritizing secure interactions that respect her time as a single parent.

User journey 1: Pedro's experience (meeting like-minded people)

Onboarding: Pedro signs up and creates a profile matching his interests, work life balance, career goals and location.

Searching & matching: The app's algorithm narrows down the potential matches based on compatibility.

Engagement: Pedro starts chatting with a few of his matches.

Outcome: He schedules a date with a match he connected with, looking forward to a casual date with someone who aligns with his goals in life.

User journey 2: Maria's experience ()

Onboarding: Maria registers on the app, filling out her profile to highlight her family's values, her profession as a nurse, and her search for a serious, long-term relationship.

Searching & matching: The app uses its algorithm to filter out matches who align with Maria's goals and personality traits, especially those interested in serious relationships.

Engagement: Maria engages with a few potential matches through the chat feature, prioritizing those with family values and shared interests.

Outcome: After chatting with a few matches, Maria arranges a meet-up with someone compatible, feeling hopeful about finding a genuine connection that fits her long-term aspirations.

Section 3 Product Niche:

Most other dating apps on the market just take into consideration the location of the users. With Steamy, every part of your profile will be examined when deciding a perfect fit for your needs; your interests, availability and even conflicting information - if you have "no kids" as a preference, you won't get parents matched to you!

The need for constant scrolling, swiping and waiting is over now - save your time to the few people that will be worth your while. The niche being covered is the hyper personalized matching.

Section 4 Features & Functionalities :

| As a <type of user> | I want/need to <perform a task> | so that <achieve some goal> |
|---------------------|--------------------------------------------------------------------------------|--------------------------------------------------|
| As a new user | I want to be able to create an account | So that I can save my matches |
| As an active user | I want to be able to see a numeric value of how much I match with another user | So that the recommendations are more relevant |
| As an active user | I want to be able to filter for nearby matches given a set distance | So that only relevant matches show up on my feed |

Hardware:

- **Screen Sizes:** The app should be designed to accommodate devices with screens between 5 to 7 inches for smartphones. Use responsive layouts to adapt to various aspect ratios and resolutions.
- **Orientation:** Portrait mode only, which simplifies design and usability on mobile devices.
- **Minimum Screen Resolution:** Target resolutions starting at 720x1280 pixels for modern device compatibility.
- **Touch Interaction:** Optimized for touch screens, with spacing and button sizes adhering to guidelines for touch-friendly interfaces.

OS:

- **Android:** Android 8.0 and above, which will cover most modern android versions
- **IOS:** Currently not targeting IOS support but would be easy to expand to in the future.

Interactions:

- **API:** The application will interface with REST API endpoints to handle user data, authentication, matching etc.
- **Database:** The API will interface with a database to store user credentials, chat messages and other relevant user information.

Third-party integrations:

- **Location Service:** Use the devices location services to detect and store the users current locations to be used when finding relevant matches.
- **Push Notifications:** To display message notifications and new matches.
- **Image Uploading:** To allow the user to upload images to the app which will be displayed on their profile.

Minimal Viable Product:

1. **User authentication and profile setup**
 - a. Registration, login, profile creation
 - b. Photo uploading, bio, interest selection
2. **Location and interest based matching**
 - a. Use location to show nearby users
 - b. Rank nearby users by common interests
 - c. Swipe feature for matching
3. **Placeholder chat features**
 - a. Non feature complete chat system displaying the frontend design

Good to have features:

1. **Chat features**
 - a. A functioning chat system which allows users to interact via messaging
2. **Push notifications**
 - a. Push notifications alerting the user on new matches and incoming messages

Section 5 Development plan:

Overall, 25 days are planned in order to complete the MVP features, with 5 days extra allocated in the to mitigate potential risks :

| Feature / User Story | Effort (days) |
|-------------------------------------------------|-----------------|
| Profile Setup | 7 |
| Registration and Login | 3 |
| Profile Creation (profile pic, bio, interests) | 4 |
| Matching & Swiping | 15 |
| Location-based matching | 5 |
| Interest-based for nearby users | 5 |
| Swipe functionality | 5 |
| Chat Feature | 3 |
| Chat interface | 3 |

Risk mitigation table

| Risk | Type | Severity (1-5) | Probability (1-5) | Mitigation Strategy |
|----------------------------------|-------------------|----------------|-------------------|------------------------------------------------|
| Unfamiliarity with flutter | Technical | 4 | 4 | Divide responsibilities based on familiarity |
| Feature creep | Planning | 4 | 3 | Clearly define MVP and have weekly meetings |
| App crashing or poor performance | Technical | 4 | 4 | Test app in different iOS versions and devices |
| Team communication | Team | 3 | 2 | Establish clear roles, check ins |
| Lack of testing time | Quality / Testing | 4 | 4 | Prioritize automated testing for MVP functions |
| Security vulnerabilities | Security | 2 | 4 | Basic security protocols, |
| Sick | Team | 1 | 1 | Have realistic goals, allocate time |