

Bumble: Breaking down Business Outcomes into Product Outcomes

Bumble App

An **online dating** and a **social networking app**, **Bumble** allows people to **find potential partners (Bumble Date)**, **friends (Bumble BFF)**, or **professional network (Bumble Bizz)**



Users create a profile, swipe through profiles of other potential matches, and start a conversation with their match.

Users can access **premium features** to **maximize the chance of developing meaningful connections**

Mission

Create a world where all relationships are **Healthy** and **Equitable**, through **Kind Connections**

Value Proposition

Women make the first move on **Bumble** by initiating a chat in case of heterosexual matches

Business Model

Bumble is a **Freemium Model**

- **Basic features** are **free** for everyone
- **Premium features** can be **subscribed** or **purchased in-app**.

Both subscribers and non-subscribing users, can access additional features through in-app purchases.

Problem Statement Increase the ARPU for Bumble

Problem Breakdown: Why is increasing the ARPU important for Bumble?

Increased Revenues

Increasing the ARPU directly contributes to the growth in the company's revenues

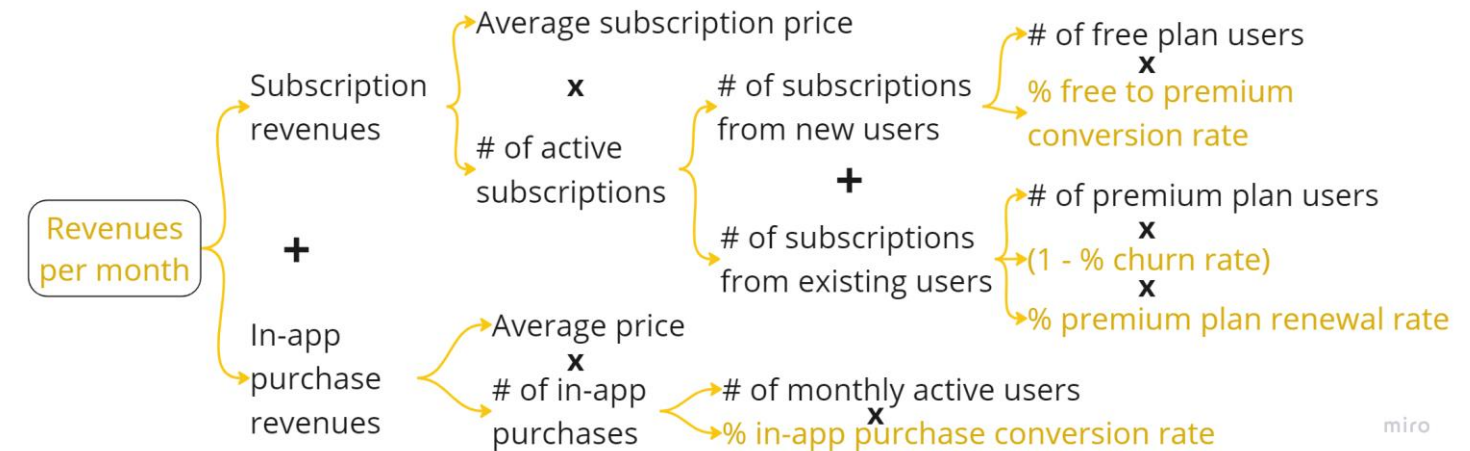
Scalability

If APRU is less than Customer Acquisition Cost, it directly impacts the company's business viability and ability to scale

Competition

APRU is the most common metric to compare against competitors. Increased ARPU can give an edge over competition

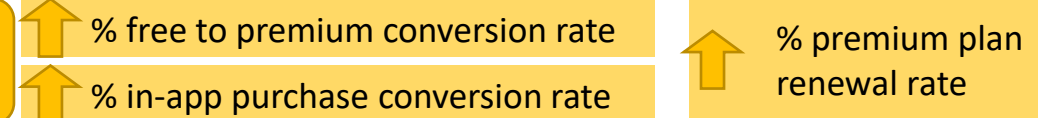
Mapping Business Outcomes to Product Outcomes



Business Outcome



Product Outcomes

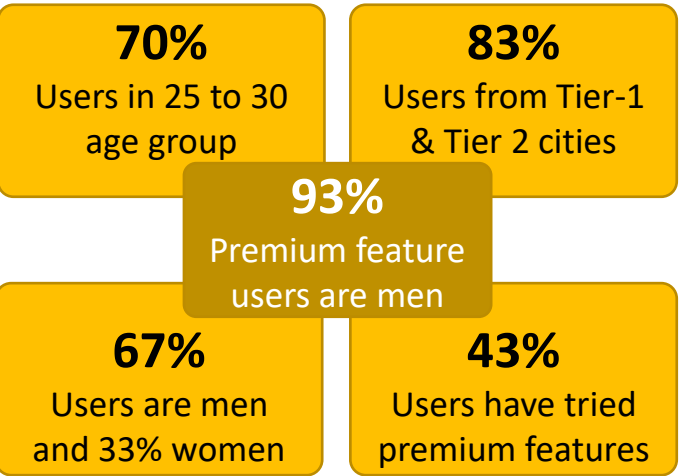


*ARPU = (Monthly Revenues/MAU); I am focusing only on increasing revenues (i.e., numerator)

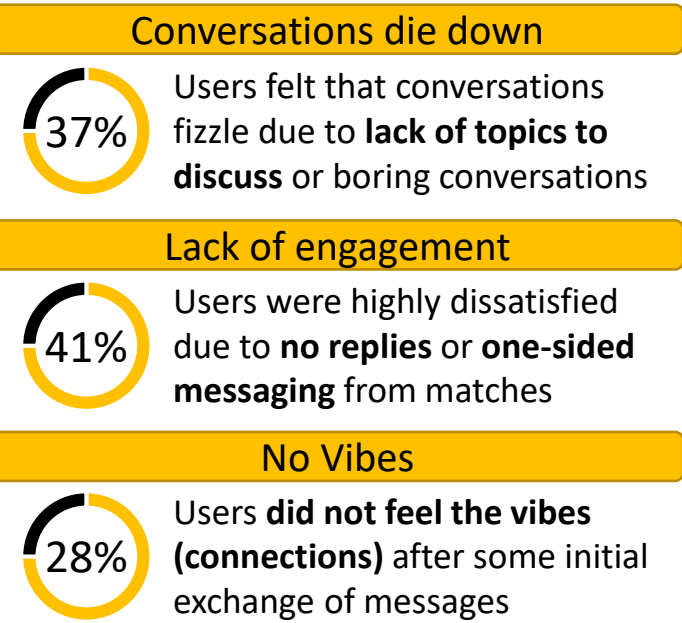
*For product outcomes, I am focusing on improving conversion & renewal rates (ignoring churn)

Identifying User Needs and Pain Points through User Survey and Interviews

Bumble User Demographics

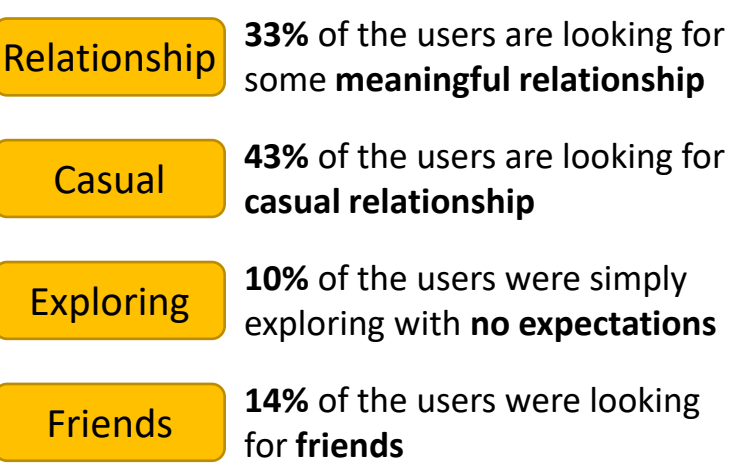


Key pain points faced by users



Source: [Bumble User Survey](#) (30 Respondents); User Interview (5 Interviews)

Why do users use Bumble?



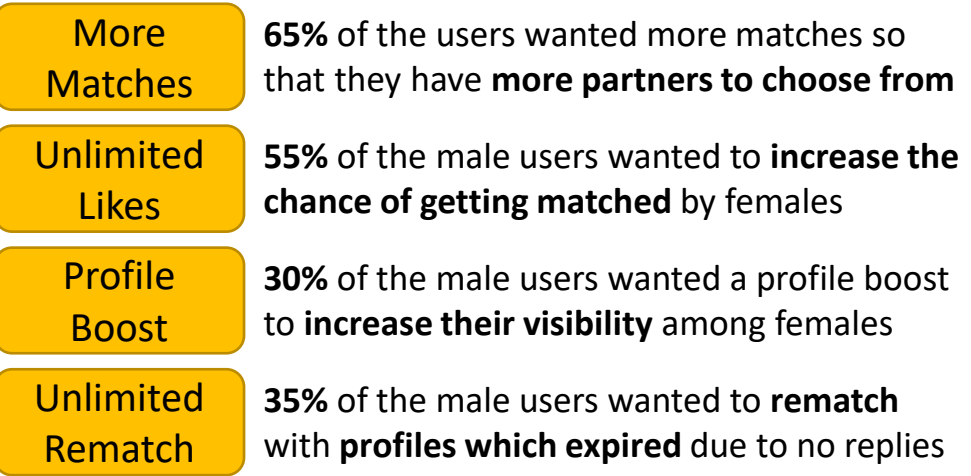
Insights from User Interviews

*"I have been on Bumble for a few weeks now. I have matched with a few women, but **they never message me back.**" – Pratik (27, M)*

*"Most of the time, **girls just don't reply or give me one-word answers.** It's really frustrating because I'm trying to meet someone and it's hard when no one is willing to talk" – Mayur (30, M)*

*"Bumble is a great app for meeting new people, but the conversations can be hit or miss. I've had some really good conversations with girls who I've ended up meeting up with, but I've also **had some really boring conversations with girls** who I never want to talk to again" – Rajiv (28, M)*

Why did users pay for premium features?



Reviews (recurring pain points) from App Store

David Fish ★☆☆☆☆ May 7, 2023
Great concept, but it doesn't work. Most women on this app assuming if they're even real, don't actually want the power to make the first move. They put in the bare minimum when it comes to starting conversations, which is pretty 1 sided when they won't accept the same from men anywhere else. This app is such a waste of time and I'm deleting it.

Gareth Curry ★☆☆☆☆ March 30, 2023
Of all the dating apps I've tried so far, this one is the worst. Somehow Tinder (also terrible) is slightly better because I actually had (weak) conversations with people. Hinge has been the best experience so far. I'm not going to use an app that never results in any actual conversation with matches. Edit: Response to Bumble: For \$3.99 a minute, you can receive 1 phone call from me a week. How does it feeeeeeeeeeel?

- Male users complained that even if **women messaged first**, it was just a **bare minimum effort**
- Male users** had to **put in a lot of effort** for the conversation with female users even if it were one-sided

Problem Breakdown: Identification of the “True Problem” & why it should be solved

Root Cause Analysis

Problem	Men are unable to form a meaningful connection with women, whom they matched on Bumble.
Why?	Women do not respond after the first message or after exchanging a couple of messages.
Why?	Women have significantly more matches than men, so they are picky to whom to respond . Women expect men to lead conversation and make it interesting else the conversation fizzles out
Why?	Men find it difficult to come up with ideas and topics to keep the conversation interesting and engaging

What is the **True Problem**?

How might we assist men to form a meaningful connection with their matched partners, **so that** they can effortlessly chat in an engaging and interesting conversation with their matches leading to a date?

How do we know it is a real problem? (Survey results)

37%	Users felt that conversations fizzle due to lack of topics to discuss or boring conversations
41%	Users were highly dissatisfied due to lack of engagement (no replies, one-sided messaging) from matches
67%	Users felt that meaningful and frequent conversations lead to a date

Why should we solve this problem now?

Intense Competition	<ul style="list-style-type: none"> The online dating industry in India is highly competitive Top players are constantly innovating and expanding solution offerings to attract users.
Growing User Base for Dating Apps	<ul style="list-style-type: none"> Over the last five years, the user base of Tinder (15 mil), Bumble (10 mil), and Hinge (3 mil) has grown by 20%, 30%, and 50% respectively. The increasing acceptance of online dating and the increasing urbanization of young population have contributed to the growth of dating apps in India.
Bumble could lose their user base of potential paying users	
<ul style="list-style-type: none"> New users can prefer to join, and existing users can switch at zero cost to Bumble’s competitors, who address users’ current problems. Bumble may be losing the opportunity to capitalize on the growing user base of young dating population 	

What is the value generated by solving this problem?

For the Users	<ul style="list-style-type: none"> Engage frequently in interesting conversations with matches Experience fun talks without feeling forced conversations Form a meaningful connection with the match leading to a date
For the Business	<ul style="list-style-type: none"> 1% increase in the number of paying users and 1% increase in the ARPU will approximately increase the revenues by 2%. So, the company should focus on increasing ARPU

Problem Breakdown: Who are the target users affected by the True Problem

User Persona (Male dating app users)



Bio
28-year-old Rahul is an **engineer** and lives with his flat mates in **Pune**. He is occupied with work on weekdays. He gets time for personal activities and to **socialize** only on **weekends**

Needs

- Looking for a **relationship**
- Use **dating apps to meet women** since he is unable to meet them through his social circle
- A seamless and **interesting conversation with women matched** on dating apps

Pain Point

- Lack of experience** in using dating apps
- Difficulty in conversing** with matched partners
- Hard to come up with **conversation topics**
- Lack of response** from the other side

Jobs To Be Done

- When** I want to message my matched partner
- But** I am unable to come with topics to discuss
- Please help** me engage in a meaningful and frequent conversations
- So that** these conversations lead to a date

Customer Journey Map

User:

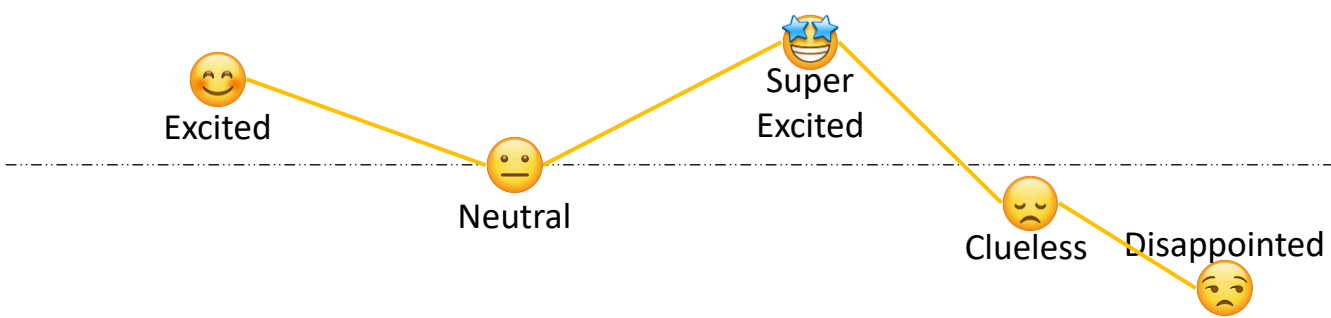
Rahul has been a Bumble user for 6 months now

Scenario:

Rahul has matched with a potential partner

Expectations:

Have an interesting and engaging conversation leading to a date

Stages	Create Profile	Swipe & Match	Message matches
Actions	Add photo/ video, write bio, prompts, & interests, add Insta/Spotify	Swipe profiles, superswipe or send compliment, and get a match	Send messages via text, audio, video, question game
Thoughts	I can create a detailed profile & provide all the required information	I don't have much choice, so I right swipe everyone. I will read bio after a match.	There are so many ways to message still no one wants to respond
Feelings			
Pain Points	Writing a unique & eye-catching bio	No information about compatibility match	Engage matches in a conversation
Opportunities	"Bio Recommender" which takes your inputs and converts them into a fun & unique bio	Compatibility Meter that calculates compatibility score; Superswipe with an add-on audio/ video message	Chat Assist to engage in meaningful conversation; Fun trivia game based on mutual interest

Ideating and exploring potential solutions

Solutions	What is the solution?	How does it work?	How does it solve the problem?
BeeChat	<ul style="list-style-type: none">• BeeChat is an AI recommendation solution• Assists users to break the ice or engage in back-and-forth conversation with the matched partners• Available as an in-app purchase feature	<ul style="list-style-type: none">• Solution scans the entire profile of the user and the matched partner and produces a set of prompts to break the ice. The user can select the most appropriate prompt .• Solution interprets the partner’s response and suggests open-ended questions or prompts	<ul style="list-style-type: none">• Men can send thoughtful messages to women and make them interested in continuing the conversation.• For women, the solution can craft an opening message to send to the matches before 24-hour expiry window
SuperBee	<ul style="list-style-type: none">• SuperBee is an add-on feature to the existing SuperSwipe feature• When a user superswipes on a profile, they can supplement the superswipe with an audio or video message.• Available within premium subscription pack or as a standalone in-app purchase	<ul style="list-style-type: none">• When users superswipes on potential partners, they get a prompt to add a 15 seconds audio or video recording to make their case stronger on why they superswiped• The users will also get a message that “60% superswipes with audio/video recording get a match” to nudge them to buy the feature	<ul style="list-style-type: none">• The user can convey why he is interested in the partner so that his superswipe does not go to waste.• There are high chances of a subsequent meaningful conversation if the partner right swipes since the superswipe intent was clear.
BeeQuiz	<ul style="list-style-type: none">• BeeQuiz is a trivia game designed with the intent to enable the matched users know each other in a fun way.• User can initiate a trivia in the chat window and the matched user responds• Available within premium subscription pack or as a standalone in-app purchase	<ul style="list-style-type: none">• Solution creates a trivia quiz based on users’ profiles and dating-appropriate topics.• Solution analyses each question’s response for both the partners and provides feedback to users in the form of compatibility scores and comments on points of common interest• Users are rewarded for participating in the trivia	<ul style="list-style-type: none">• Based on the compatibility feedback, both users get to know a little bit more about each other after a round of trivia• Men can send thoughtful messages to women after the trivia and make them interested in continuing the conversation

Evaluating the potential solutions and prioritizing one of the solution

	Adoption of the Solution (A)	Impact on the ARPU or Revenues (I)	Confidence in solving the problem (C)	Operational Effort (E)	Score = (A*I*C)/E
BeeChat	Medium (Since most of the users complain about lack of engagement, one-sided conversation, and no response, the adoption could be high. However, users can ignore the recommendation and go their own way)	High (Whether the users are proficient at conversing or not, this feature will assist users to send the right messages to matched partners increasing the chances of buying the solution)	High (It addresses the core problem of lack of conversations among matched partners)	Medium (The system needs to be trained with questions and possible responses. They solution needs to be thoroughly tested since users will be willing to pay for good recommendations)	9
SuperBee	Medium (This is quick fix solution which increases the chances of getting a match but need not guarantee a further conversation)	Medium (Superswipes are already a part of subscription and in-app purchase. This feature could marginally increase revenues)	Low (SuperBee can get a match, but the user still need to be engaged in conversations after that)	Medium (The solution needs to integrate a video/audio message attachment to an already existing Superswipe feature)	2
BeeQuiz	High (The matched partners can participate in the trivia since the questions are fun and entertaining. The compatibility score and feedback will help partners know each other and promote conversations)	High (Since this solution has a fun factor, users would be willing to purchase the solution and play with partners.)	High (This solution solves the core problem of the lack of conversations; The fun factor associated with trivia can promote conversations)	Medium (Bumble already has a Question Game within chat. The system needs to be trained to produce the right set of trivia questions and responses based on mutual interests)	13.5

All scores are given on a low to high scale: 1 = Low 2 = Medium 3 = High ; Operational Effort is considered for calculation although the tech bandwidth is infinite

Introducing BeeQuiz (Engage in meaningful conversations through fun trivia)

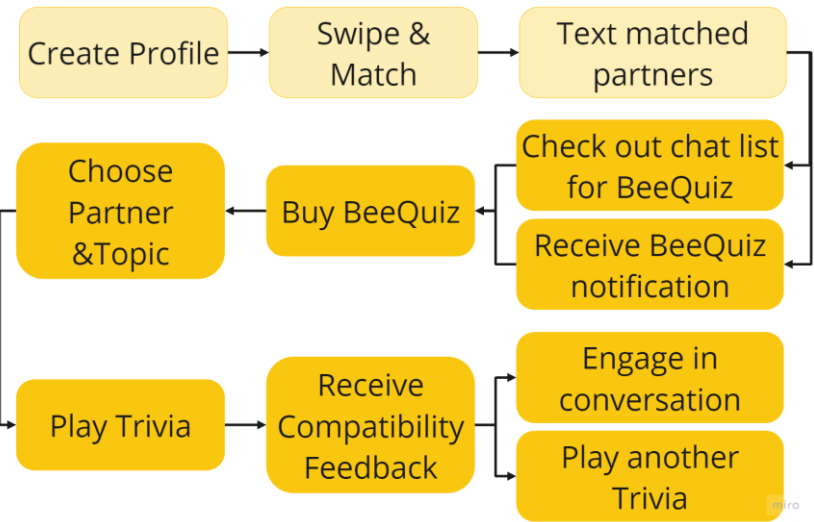
Benefits of the Solution

Through BeeQuiz, users can play fun & entertaining trivia games with matched partners, increasing the chances of engaging in a meaningful conversations

Key Features of the Solution

Select the Trivia Topic	Based on the users' profiles and common areas of interest, users receive suggestions for trivia topics
Compatibility Score & Feedback	After both users complete the trivia, compatibility score and feedback on their shared interests is displayed
Rewards	Users get rewarded for frequently playing the trivia games

User Flow

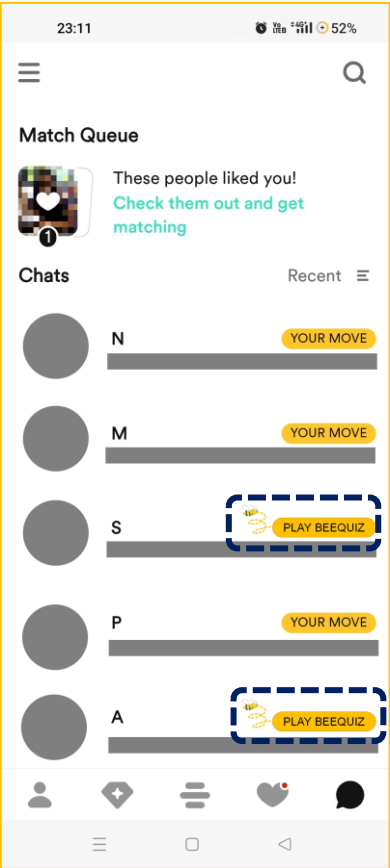


How does the Solution work?



Notification

User gets a notification if matches are not responding (external trigger)



Bumble Chat List

User can choose to play trivia with matches who are not responding (internal trigger)



Buy BeeQuiz

User can choose from multiple available pricing options as per their budget

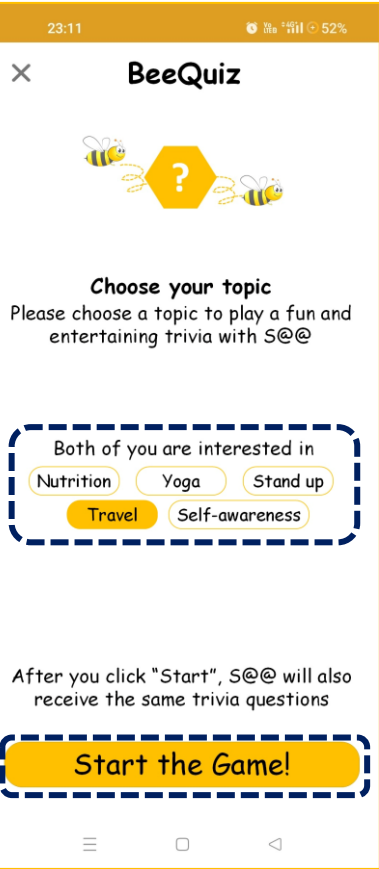


Choose Partner

User chooses and confirms a matched partner to play the trivia with


Introducing BeeQuiz (Engage in meaningful conversations through fun trivia)

How does the solution work?



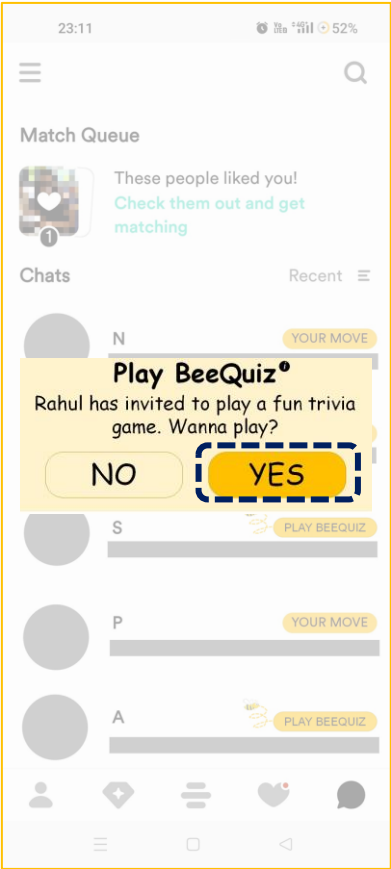
Choose Topic

User can choose a topic based on suggestions from Bumble and start the game




Play Trivia

User gets a set of five multiple choice questions to be answered honestly



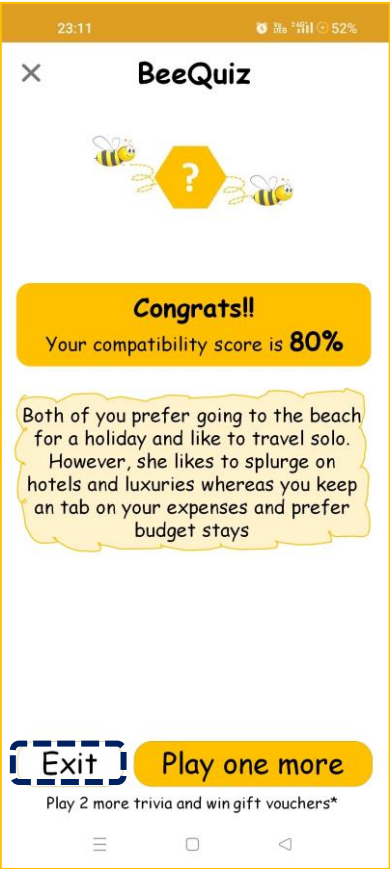
Play Trivia

Partner also receives the same trivia through notification which she can accept or deny



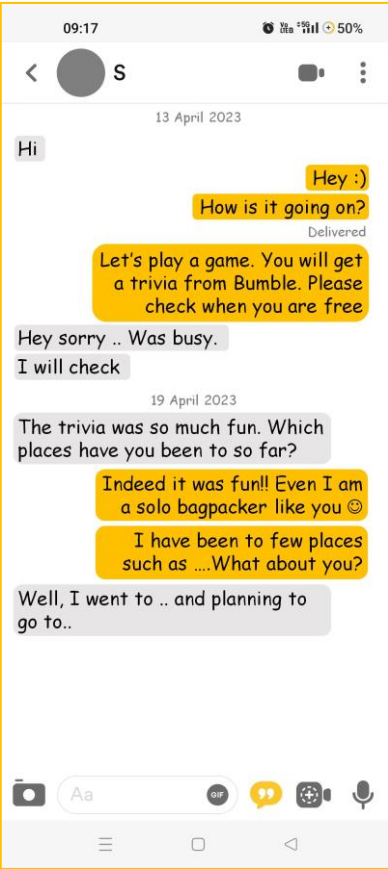
Reveal Answers

Only after both the users complete the trivia, they can view and compare responses



Compatibility Score

Compatibility score and detailed feedback on common area of interest is displayed



Conversations

Users can continue to play another trivia or continue conversations in the chat window

Metrics, Pitfalls & Mitigation Strategies, and Second Order Thinking for the solution

Metrics to measure success of BeeQuiz (BQ) solution

Metric Type	Metrics	Rationale
North Star Metric	# of BQ trivia played by each unique pair of matched users per month	BQ works only when both the paired users complete the trivia
Adoption/ Usage Metrics	<ul style="list-style-type: none">Click through rate (CTR) for the BQ feature# of clicks on Play BQ requests per user(# of clicks on “Yes” after receiving BQ invite) / (# of users who received BQ request)	Users who send and who accept the BQ request would be actively engaged in adoption of the feature
Engagement Metrics	<ul style="list-style-type: none"># of BQ played per week# of BQ played per user per week# of active users playing BQ per week	Users who play BQ frequently will find the feature useful, impacting them in positive way
Retention Metrics	<ul style="list-style-type: none"># of repeat BQ purchases per user per month# of messages exchanged between matched users after playing the trivia	Users who find value through meaningful conversation with partners will be repeat users
User Satisfaction Metrics	<ul style="list-style-type: none">Customer Satisfaction Score for BQ# of 5-star ratings through ratings prompt to BQ users who played the trivia	Users who are satisfied with the BQ (more conversations, dates) are more likely to give ratings
Monetization Metrics	<ul style="list-style-type: none">Average revenue from BQ per monthAverage # of BQ purchased per monthARPU from BQ per month% increase in average revenues m-o-m% increase in ARPU m-o-m	Measure the contribution of revenue and ARPU from the BeeQuiz feature to the overall revenues and ARPU

Pitfalls & Mitigation Strategies

Pitfall: Lack of engagement with trivia

Users may not engage in trivia because the **trivia topics don’t match their interests**. For the buyer, the trivia in which the matched partner does not participate, is a waste of money and **could stop buying this feature**.

Mitigation Strategies

The **topic for the trivia could be prioritized based on partner’s interest** (rather than the user who buys the trivia). The system could **override buying user’s topic with partner’s preference** and allow the partner to play first.

Pitfalls: Notifications received at wrong time

Users may get notifications to play trivia at wrong times (e.g. working hours). Since **users could be busy**, they could **ignore the notification** and **may forget to play the trivia**. However, may interpret that user ignored their request and hence, won’t buy the feature again

Mitigation Strategies

Notifications for the trivia request **should be timed correctly** so that users get notifications **after working hours** or **on weekends** when their chances of engagement are high

Second Order Thinking

Potential backlash from female users

Since male users are likely to be potential buyers, female users could get bombarded with lot of trivia requests. They could completely ignore the requests or selectively accept a few. Worst case, they could unmatched male users

Enhanced data & actionable insights

As more users respond to trivia, we can learn more about the topics of interest that are preferred by different user profiles. Hence, the system can even recommend trivia topics for users whose profile is incomplete.