

喵際共鳴箱：從互動行為探索 依附理論的多代理人互動體驗

The Meowing Chamber : A Multi-Agent Interactive Experience
Exploring Attachment Theory Through Behavior

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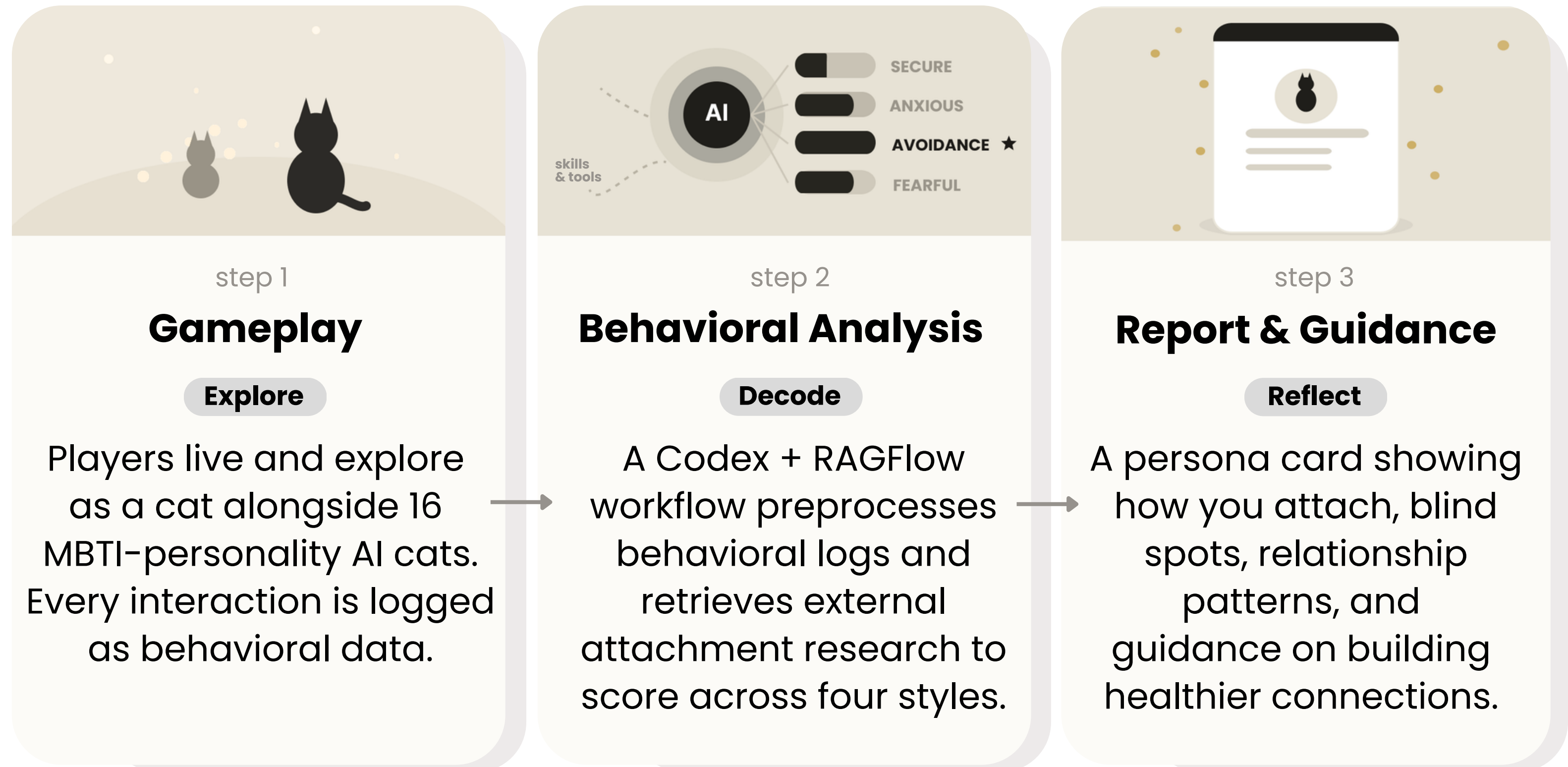
指導教授： 郭耀煌 特聘教授 兼 副校長

1. Current state of this project

Traditional psychological questionnaires are prone to **social desirability bias** — people tend to give socially acceptable answers rather than reveal their true behavior.

We designed Mewi, a human–AI cat game focused on attachment-style assessment, observing natural play behavior to deliver personalized self-reflection and relational guidance.

2. Gameplay & Report Idea





Warm morning sun and social
chatting between two AI cats



The player attacks an
AI cat, creating a direct
cat-human interaction event



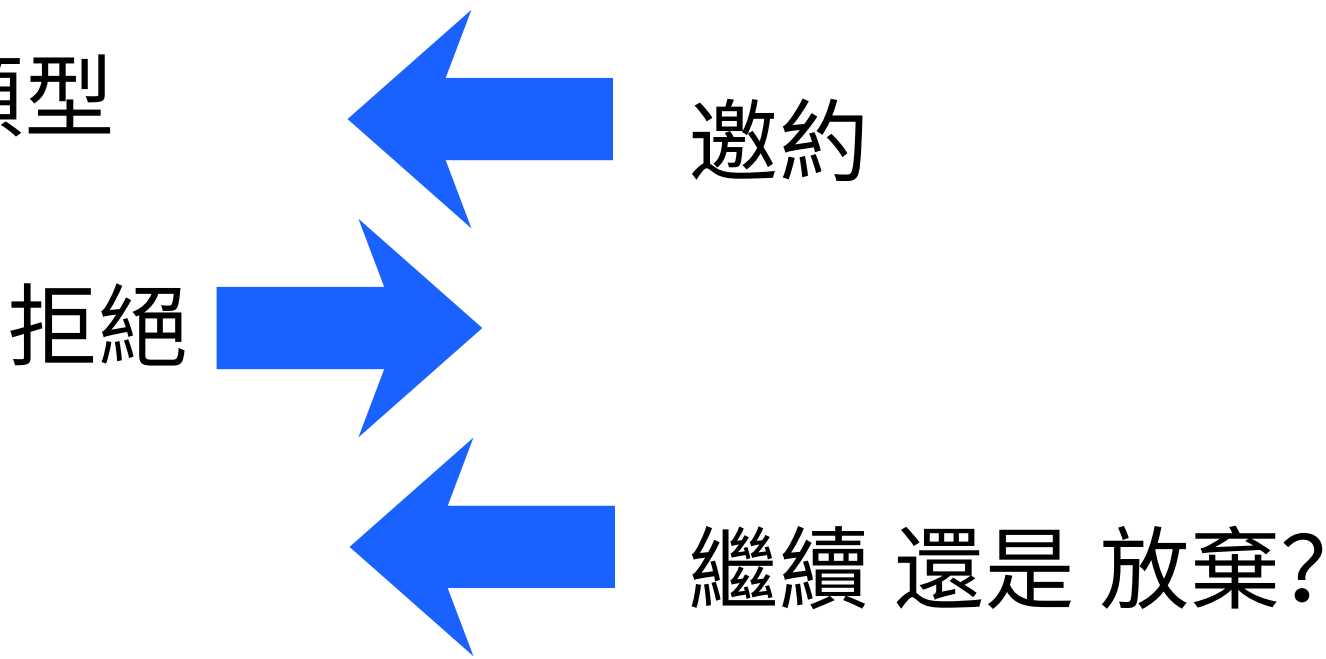
The human player quietly
peeks at the AI cats' gathering

3. Psychology preprocess

類型	行為特徵（遊戲中）
安全型 Secure	被拒有耐心、不強求、需要時主動修復
焦慮型 Anxious	被迴避後反覆靠近、情緒起伏大
迴避型 Avoidant	少主動接觸、快速退開、保持距離
混亂型 Fearful	想靠近又急退、訊號矛盾（焦慮＋迴避的加總）

從玩家互動抽取「行為訊號」經過分析得到依附類型

- player-cat actions
- AI cat responses
- timing & distance
- confidence



3. Psychology preprocess

Attachment Signal Mapping



Daily Relational Dynamics
(Kaurin et al. 2022)



Attachment & Conflict Repair
(Ayenew 2021; Yildiz 2023)



Fearful-Avoidant Pattern
(Bartholomew & Horowitz 1991)

Selected sources from our attachment-guidance knowledge base

And more 10 pappers/
guidances

3 Persona Report Output



ATTACHMENT THEORY TYPE

Dismissive-avoidant leaning attachment

low dwell, action-forward contact

Your trace reads closest to a dismissive-avoidant leaning: there are clear bids and responses, but little low-pressure waiting or patience under rejection, so connection happens through discrete actions rather than lingering closeness.

- Selected sections from a sample attachment report

影子巡邏的灰貓阿巡

air-sign independence · ISTP flavor

The self-contained steady hand who shows care through actions

In close relationships this reads like someone who cares deeply but prefers practical, clear moments of connection over lingering closeness. You may lean toward handling things solo and circling back once you feel steady, rather than staying in a heavy emotional moment. When repair happens, it tends to be quiet and direct rather than dramatic.

RELATIONSHIP READ

Being close to you can feel calm, capable, and low-drama, with love shown through doing rather than talking. From the inside, closeness may feel best when there's space to breathe and a clear path back to each other.

- Selected sections from a sample persona recommendation report

PSYCHOLOGY & REPORT

SECURE PAIRING

SECURE

Often feels easy and low-pressure; their steady warmth makes your independence feel safe, and your calm keeps things grounded.

AVOIDANT PAIRING

AVOIDANT

The connection can be calm and efficient, but intimacy may stay shallow unless someone names what they actually want.

ANXIOUS PAIRING

ANXIOUS

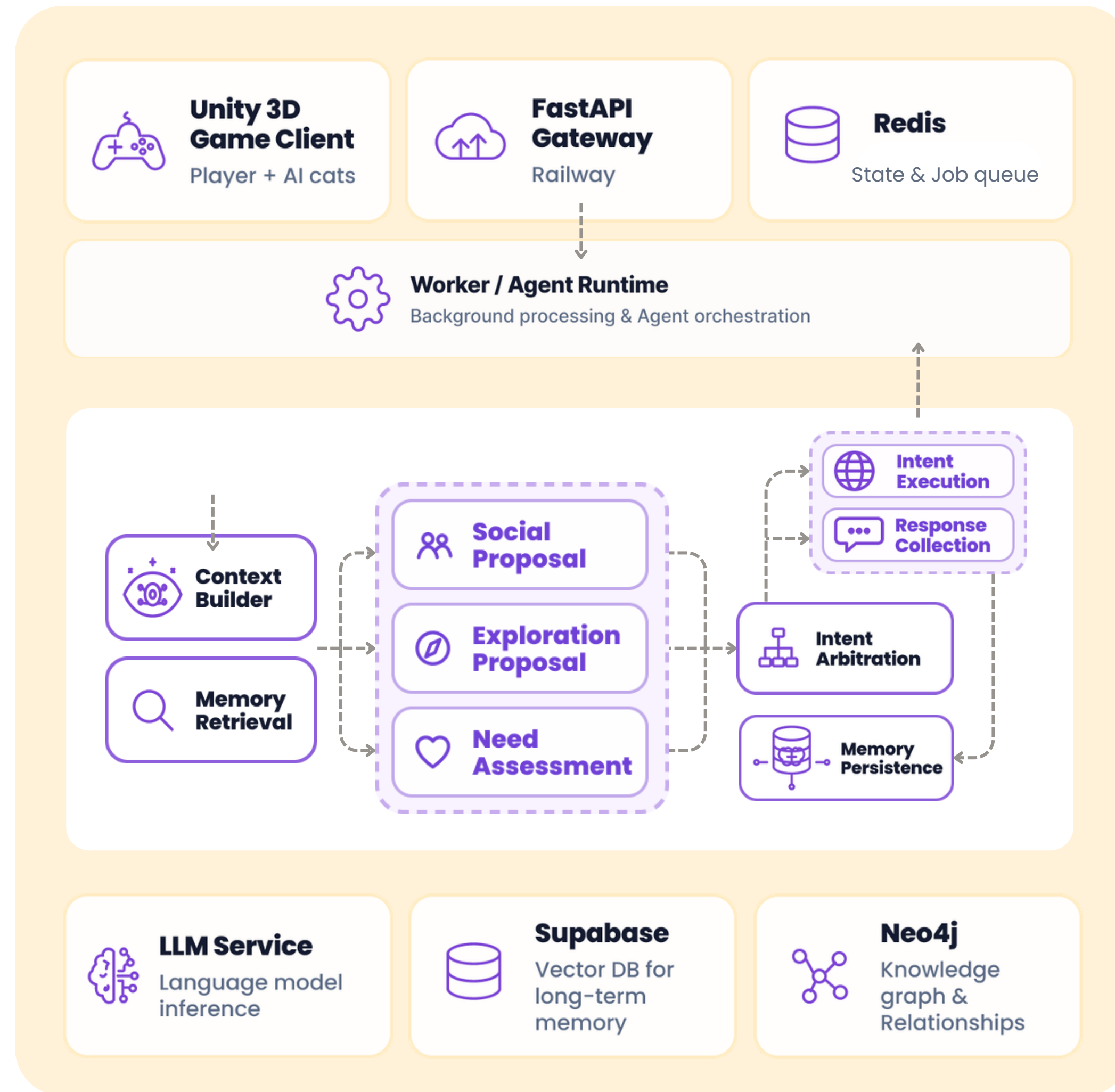
They may seek more visible reassurance while you prefer space; without clear signals, a chase-and-retreat loop can start.

FEARFUL PAIRING

FEARFUL

Their push-pull can feel confusing; your distance may amplify their fear, while their intensity can feel intrusive to you.

4. Gameplay Interaction



5. Report Generation Pipeline

The key improvement for the knowledge base is to perform parallel **query expansion** during preprocessing.



37. Why might individuals with an anxious attachment style experience intense distress even during brief separations?
38. How does an avoidant person's tendency to suppress emotions affect their ability to process relationship conflict?

93. How can identifying an individual's specific conflict resolution style assist in relationship counseling and intervention?
94. What specific communication skills (e.g., active listening, validating feelings) directly help foster secure attachment?

Because you lean calm and low-pressure, you might under-signal your need for reassurance, which can leave partners guessing. In tense moments, you may move toward quiet self-containment, and others can read that as distance instead of steadiness. When someone needs more explicit warmth, they might not realize you're still deeply engaged.

- Under-communicating your needs because you're trying to keep things easy
- Taking space to stay regulated, which others can misread as detachment
- Letting small hurts slide too long before naming them

CONFLICT MANAGEMENT

How you handle disagreements often decides whether conflict builds closeness or creates distance.

GROUNDING IN

"Whether conflict weakens or strengthens the relationship depends on the way the partners manage the conflict."

Attachment Conflict Anxiety Avoidance Growth Fear 2023

喵際共鳴箱demo影片

Lab Mewi

The meowing Chamber



在遠離塵囂的漁村裡，生活著一群看似普通的流浪貓

Watch on  YouTube

Thanks

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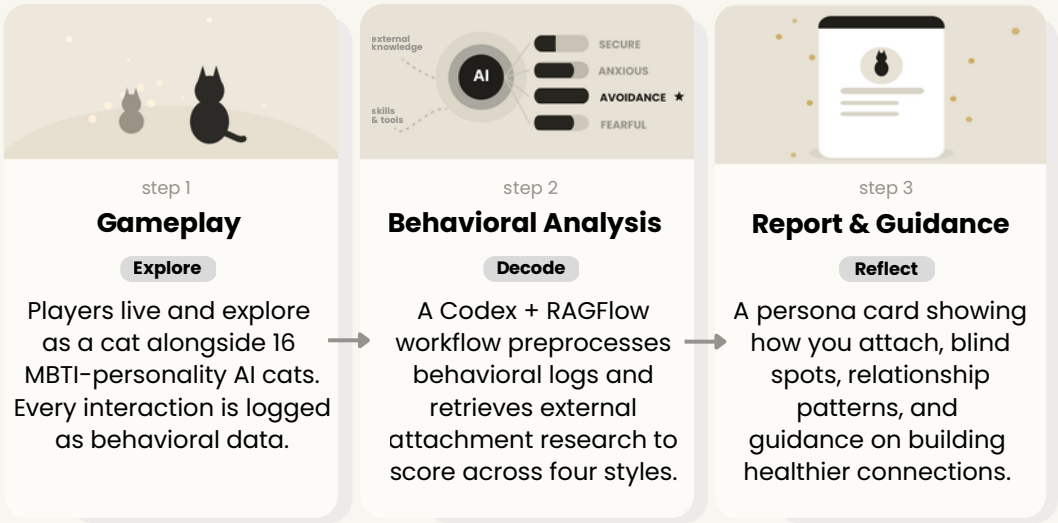
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PROBLEM & APPROACH

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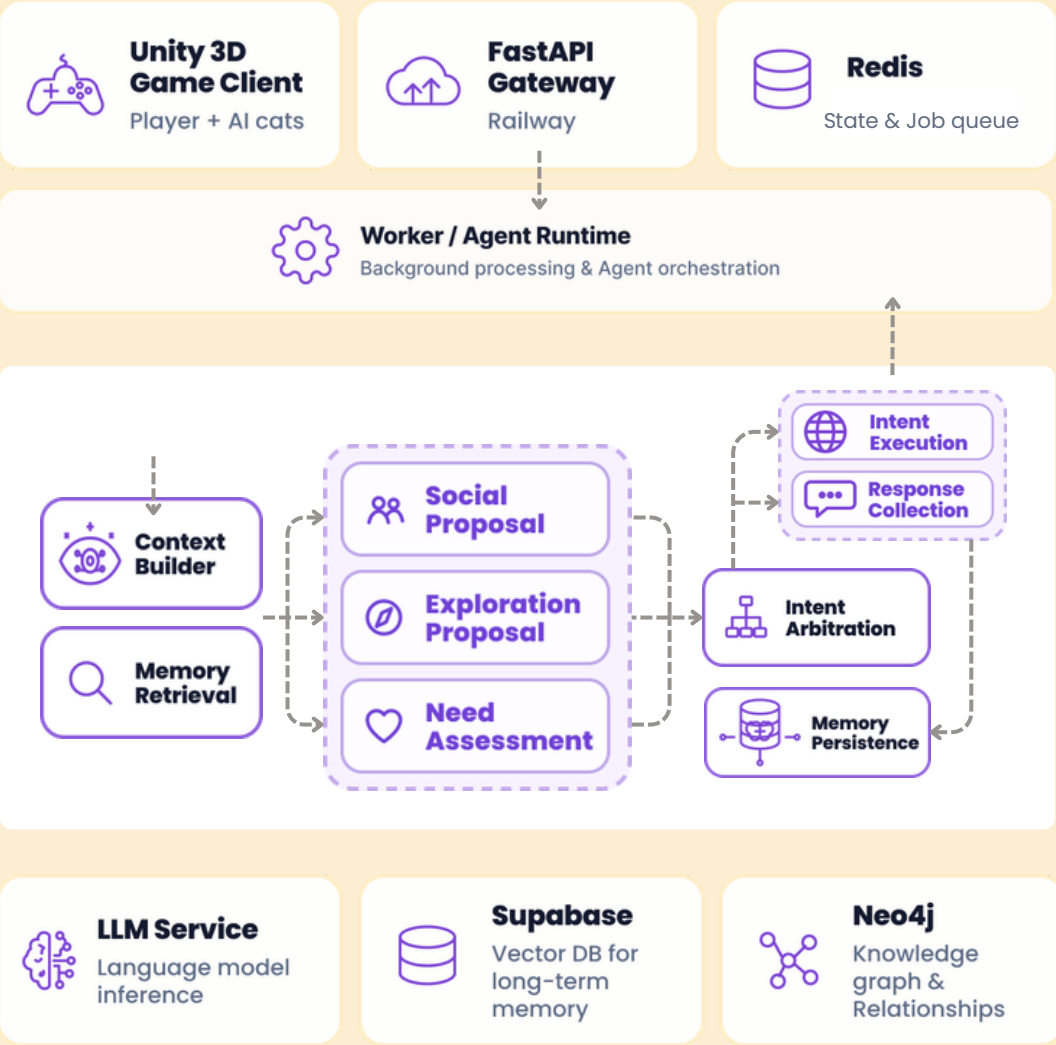


The human player quietly peeks at the AI cats’ gathering



The player attacks an AI cat, creating a direct cat–human interaction event

GAMEPLAY INTERACTION



REPORT GENERATION



Cat Social Dialogue

Yuna: Want to check out that mackerel together?
 [tone: enthusiastic, "style": "inviting posture"]

Yuzu: Let's go check out that mackerel together!
 [tone: encouraging, "style": "tactile and engaging"]

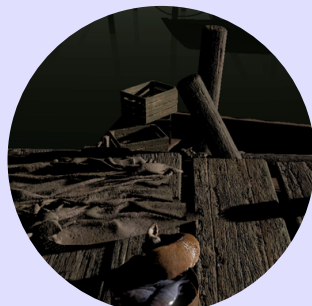
- Excerpt from a 20-min session between two AI cats - 06/07 10:20 PM

[YUNA'S INTERNAL REFLECTION]

I have engaged socially about mackerel with Yuzu multiple times, indicating a strong preference for this interaction. Continue to prioritize checking out the mackerel together.

[YUZU'S INTERNAL REFLECTION]

I have successfully engaged with Yuna about the mackerel, indicating a positive social interaction. My current intention is to socialize, but I must remember to prioritize rest afterward.



Yuzu sleeps after eating mackerel

