EmoGenius Crew

An Innovative Android Appication

TEAM MUMBERS: WangYifan, LuYuhao, WangYanbo, ZhengBinyue

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Software Engineering

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2. Project progress
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01

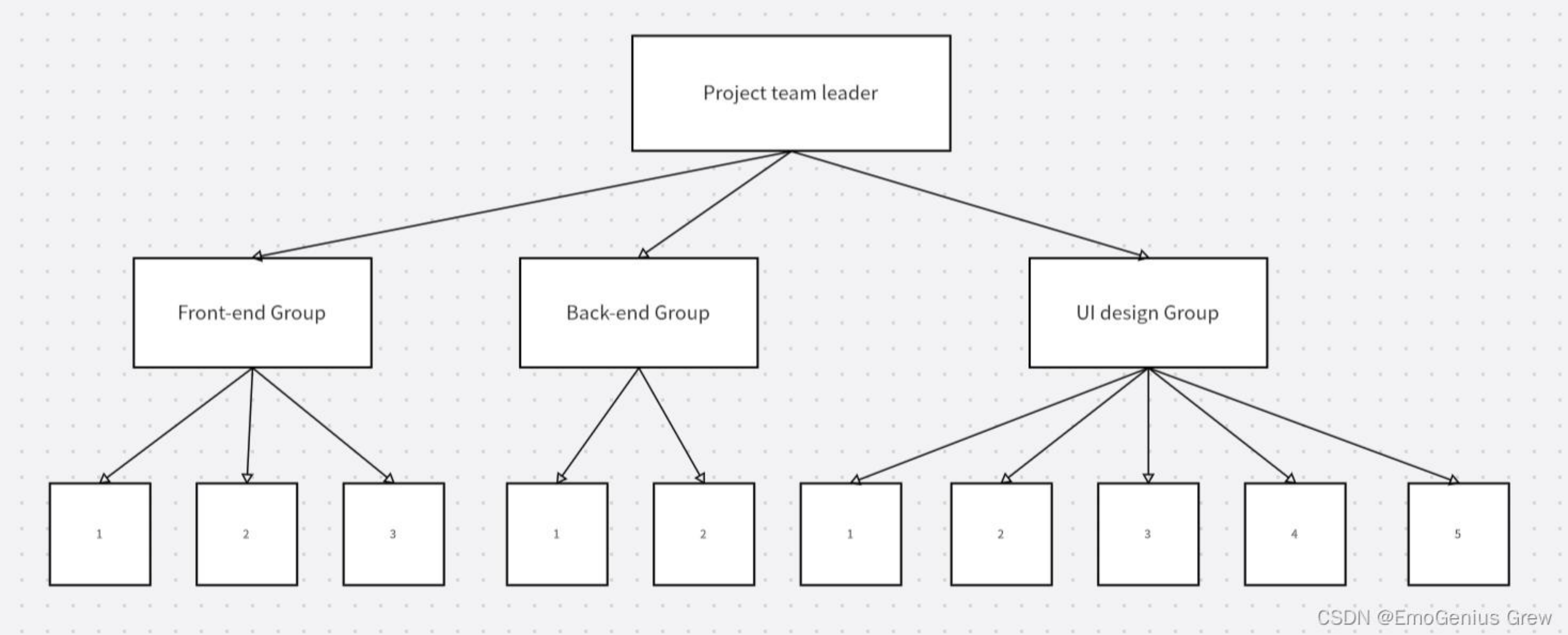
Member division of labor

PART ONE

1 Member division of labor

Student Name	Job Duties
Wang Yifan	Front-end development, Front and Back end communication docking, Blog essay, Project Management, Software Testing
Wu Guohua	Back-end development, Front and Back end communication docking, Software Testing
Shi TianJun	Front-end development, Front and Back end communication docking, Software Testing
Zhang Xindan	UI Graphics Deployment & Design, Blog essay , Front-end development
Zheng Haoyuan	UI Graphics Design, Blog essay, Front-end development
Lu Yuhao	Back-end development, Front and Back end communication docking, Blog essay, Software Testing
Zheng Binyue	UI Graphics Design, Blog essay
Li Guandong	Front-end development, Blog essay
Wang Yanbo	UI Graphics Design
Wang zhaoyou	UI Graphics Design
Fan Jinzheng	Front-end development
Yiyang Xue	UI Graphics Design

1 Member division of labor



Teamwork

02

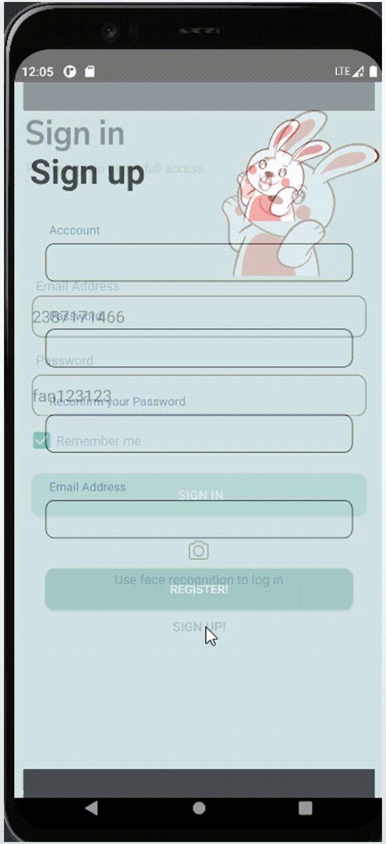
Project progress

PART TWO

Progress review

Function	Front-end completion	Back-end completion
Login/register module	Finished	Finished
Personal information module	Finished	Finished
Emotional diary module	Finished	Finished
Emotion forum module	Finished	Finished
Chatbot module	Finished	Finished
Emotion calendar module	Finished	Finished
Emotion Music Player	Unfinished	Finished
Voice Changer	Unfinished	Finished

Ⅰ Login/Registration Module



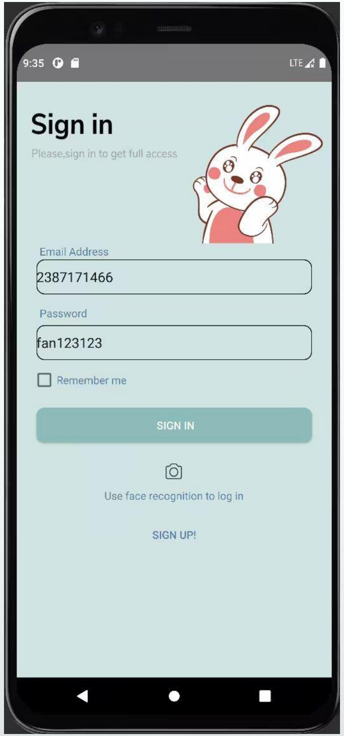
Users can input their username, password, confirmed password, and email.
If the confirmed password does not match the password, or if the account has already been registered, the registration will fail.
This module offers two methods of login and registration: facial recognition and account-password, which can better meet user needs and enhance the user experience.

Demonstration of completed functionality

I Login module

1 Account Passward login

Users can register an account and set a password to log in to the system. At the same time, the module also provides the function of confirming the password and remembering the password, ensuring that the password entered by the user is correct, and convenient to fill in the account information automatically when the next login.



9:35

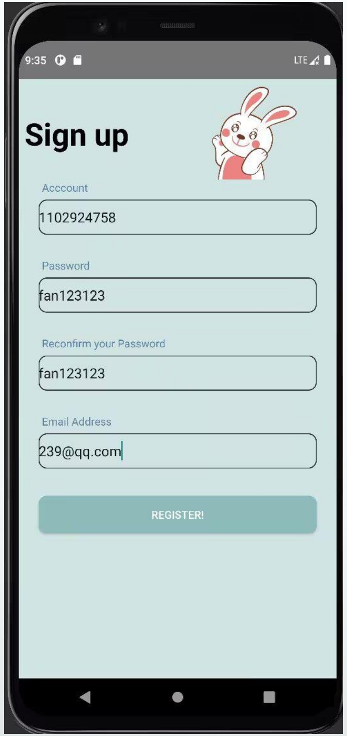
Sign in

Please,sign in to get full access

Email Address: 2387171466

Password: fan123123

□ Remember me



9:35

Sign up

Account: 1102924758

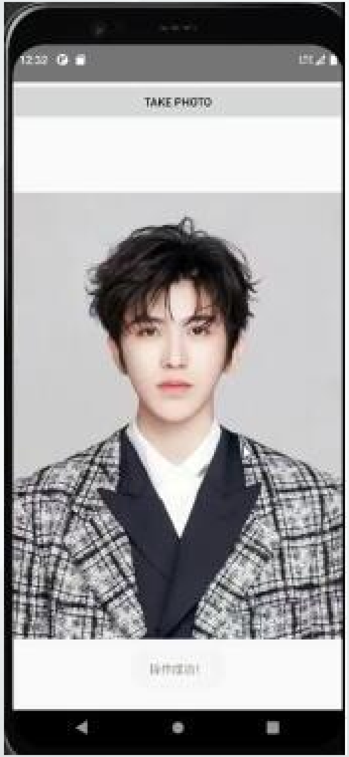
Password: fan123123

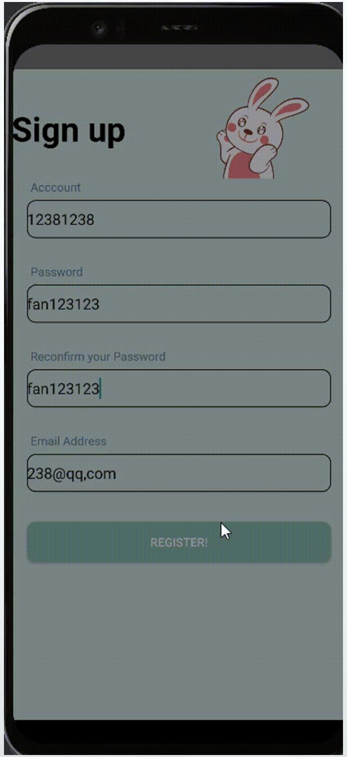
Reconfirm your Password: fan123123

Email Address: 239@qq.com

Demonstration of completed functionality

I Login module




Sign up

Account
12381238

Password
fan123123

Reconfirm your Password
fan123123

Email Address
238@qq,com

2

Face recognition login

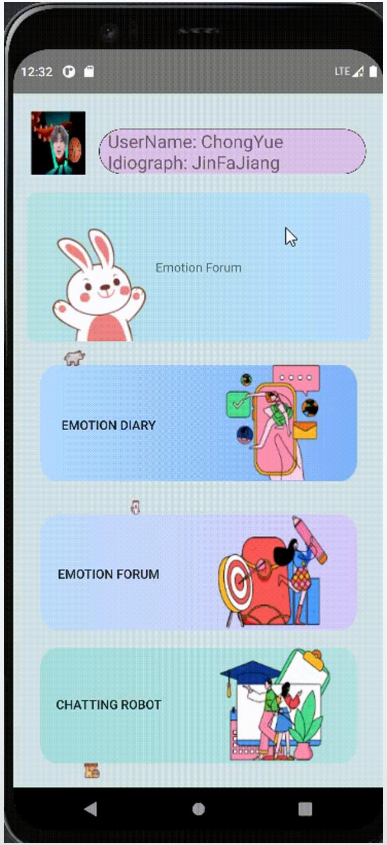
Users can log in through face recognition. The system can save the user's face information, and identify and log in directly at the next login, providing the user with another login method, and eliminating the step of entering the account and password.

Demonstration of completed functionality

Ⅱ Personal information module

1 Function description

Users can freely modify their profile picture, personal signature, name, age, and other personal data on their personal homepage to better display their individuality and uniqueness. At the same time, changes to the profile picture and personal signature are synchronized on the app's home page, which allows the software to better display the user's personal style and interests.

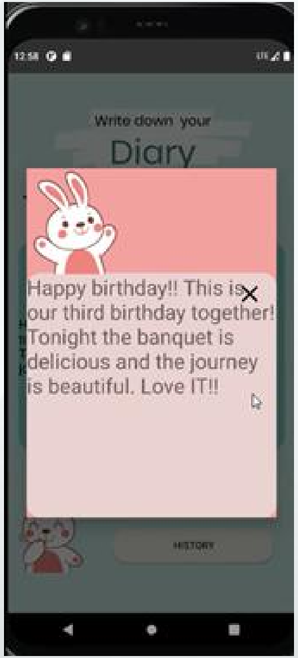


UserName: ChongYue
Idiograph: JinFaJiang

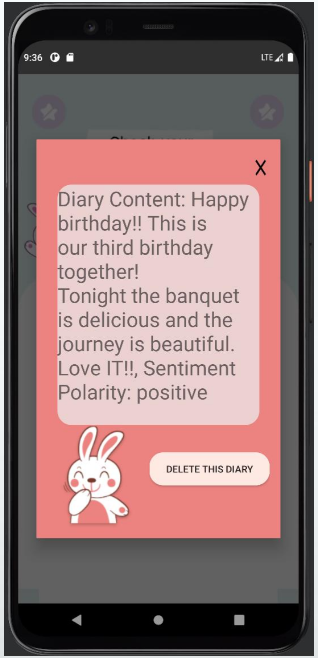
Demonstration of completed functionality

III Emotion diary module

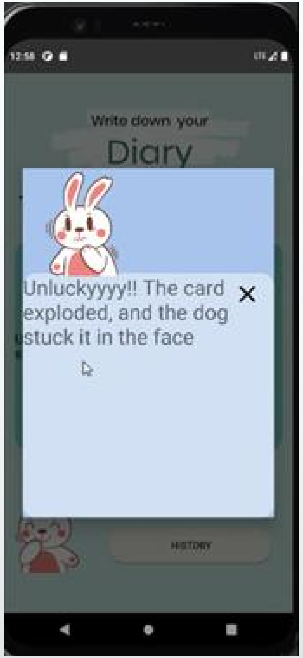
This module aids users in documenting their emotional experiences, offering feedback and suggestions. It includes features for writing, saving, viewing, and deleting diaries. The interface adapts to emotional polarities, and a rich text editor allows for expressive entries with formatting options like italic, bold, and image insertion.



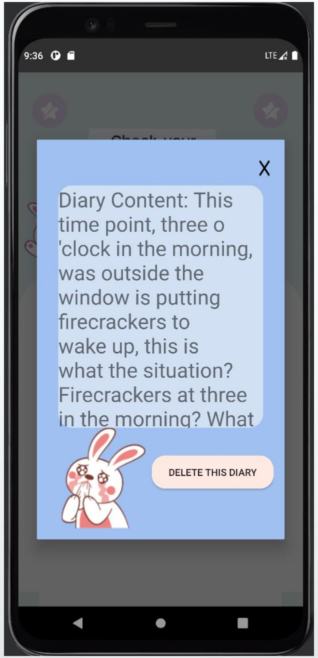
Happy birthday!! This is our third birthday together! Tonight the banquet is delicious and the journey is beautiful. Love IT!!



Diary Content: Happy birthday!! This is our third birthday together!
Tonight the banquet is delicious and the journey is beautiful. Love IT!!, Sentiment Polarity: positive



Unluckyyyy!! The card exploded, and the dog stuck it in the face



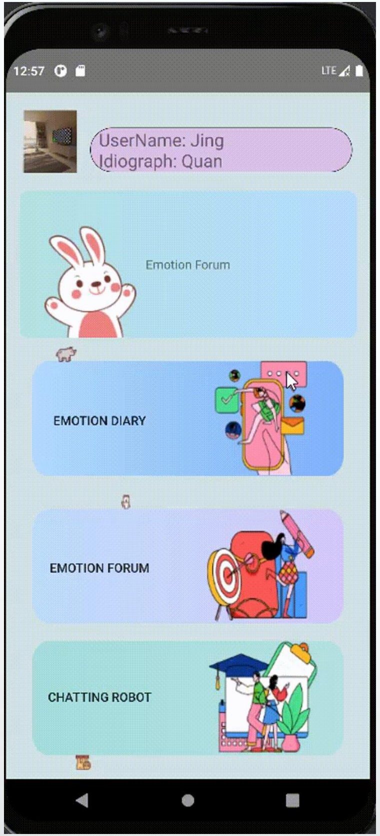
Diary Content: This time point, three o 'clock in the morning, was outside the window is putting firecrackers to wake up, this is what the situation? Firecrackers at three in the morning? What

Demonstration of completed functionality

Ⅲ Emotion diary module

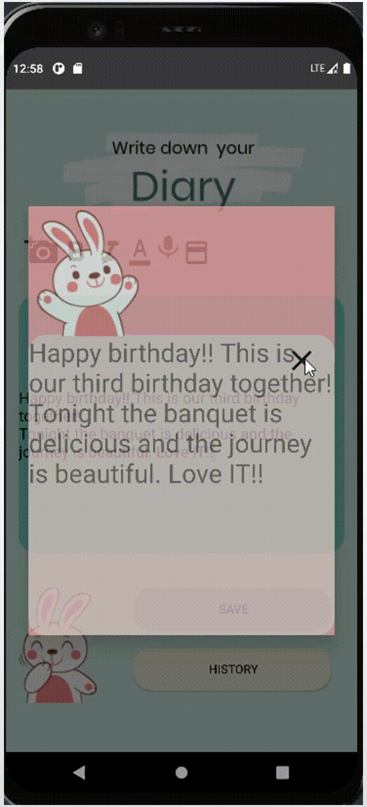
1 **Writing a diary and displaying emotional advice feedback:**

In the Emotion Diary module, users can write a diary and store their mood skillfully. Our project uses a deep learning model to analyze the emotional polarity of diary contents, which not only helps users record their emotional history, but also provides warm emotional feedback and intimate suggestions. In order to make emotional expression more colorful, we have developed rich text editing functions on the basis of text input, and users can set font styles and embed vivid photos in the diary to promote the depth management and vivid expression of emotions.



Demonstration of completed functionality

Ⅲ Emotion diary module



Happy birthday!! This is our third birthday together! Tonight the banquet is delicious and the journey is beautiful. Love IT!!

2 **Displaying history records:**
The emotional diary helps the user record the emotional history will be saved in the history, here the user can browse the diary content and the emotional state at the time, the user can also delete the emotional record.

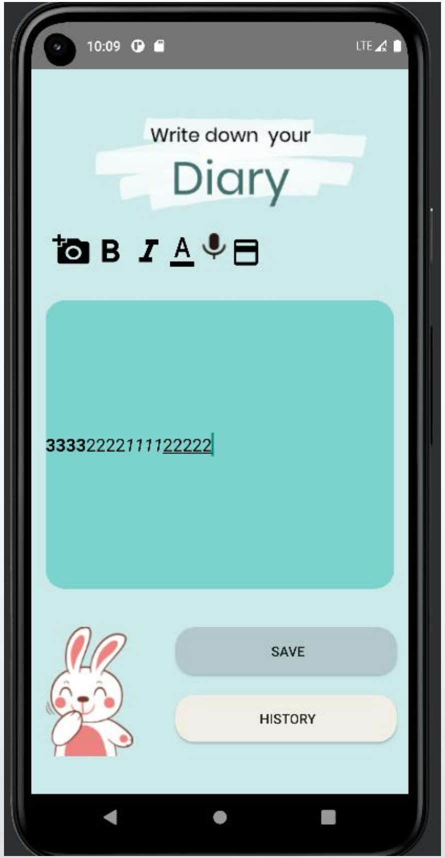
Demonstration of completed functionality

Ⅲ Emotion diary module

3

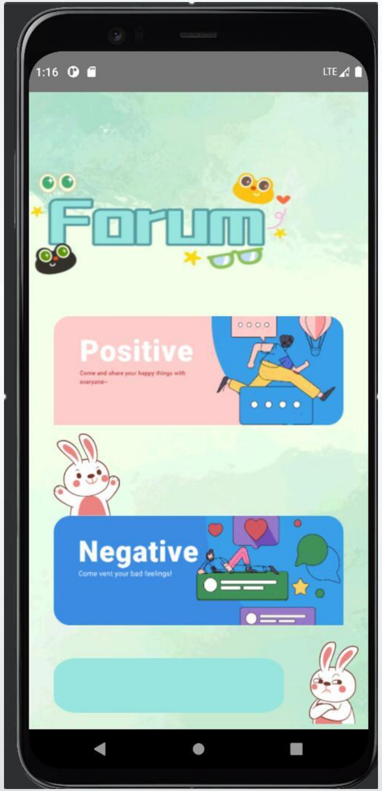
Rich Text Editor:

Rich text editors can provide users with personalized modification of text or images (such as boldface, bold, add images, etc.).



Demonstration of completed functionality

Ⅳ Emotion forum module



Come and share your happy things with everyone~

Come vent your bad feelings!

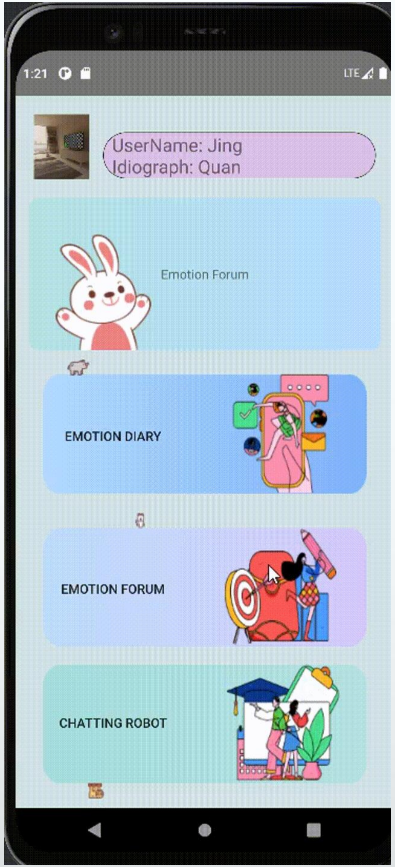
The emotion forum is mainly divided into positive emotion zone and negative emotion zone, and the emotion in different zones is different, and the post content of the corresponding emotion polarity is displayed.

Demonstration of completed functionality

Ⅳ Emotion forum module

1 Function description

The emotional forum is mainly divided into positive and negative sections, displaying posts corresponding to emotional polarities. Users can post in the respective areas and engage in interactions such as liking and commenting within the forum, promoting user support, sharing, and emotional resonance, and creating a positive atmosphere, offering companionship and belonging to hearts in distress.



UserName: Jing
Idiograph: Quan

Demonstration of completed functionality

V Chatbot module

The chatbot module, utilizing OpenAI's APIs, is tailored for emotional communication through parameter adjustments. Users can personalize their experience by modifying the bot's thoughtfulness and selecting models, leading to enhanced user satisfaction and engagement through emotional connection and interaction.

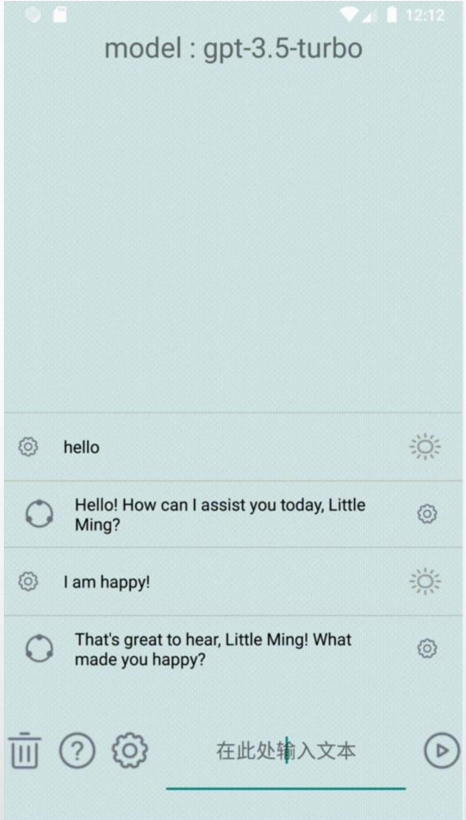
Demonstration of completed functionality

V Chatbot module

1

Function description

The chatbot module uses OpenAI's APIs to design a chatbot suitable for emotional exchange by adjusting relevant parameters. Users can also choose to adjust the robot's responsiveness and select different models to meet their conversational needs.



12:12

model : gpt-3.5-turbo

hello

Hello! How can I assist you today, Little Ming?

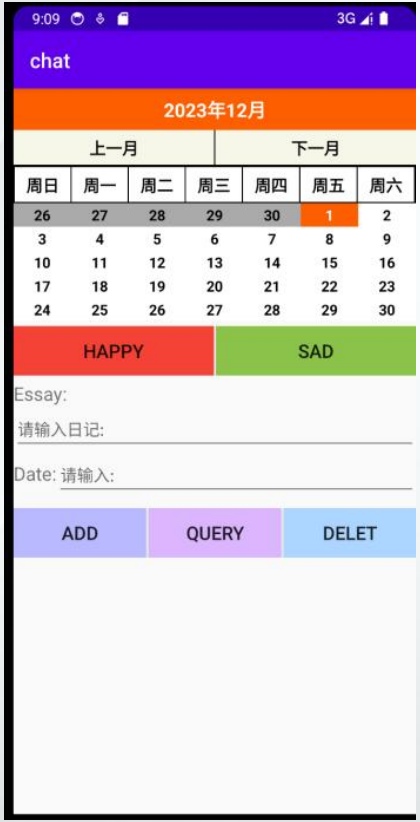
I am happy!

That's great to hear, Little Ming! What made you happy?

在此处输入文本

Demonstration of completed functionality

VI Emotion calendar module



9:09 3G

chat

2023年12月

上一月 下一月

周日	周一	周二	周三	周四	周五	周六
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

HAPPY SAD

Essay:

请输入日记:

Date: 请输入:

ADD QUERY DELET

1 Function description

The Emotional Calendar features display and recording functions. Upon entering the interface, the calendar for the current month is presented, with the current date highlighted in orange. Based on the user's emotions for the day, they can choose between happiness or sadness, and the color of the date will correspondingly change. Users can input daily diary entries and save them.

Demonstration of completed functionality

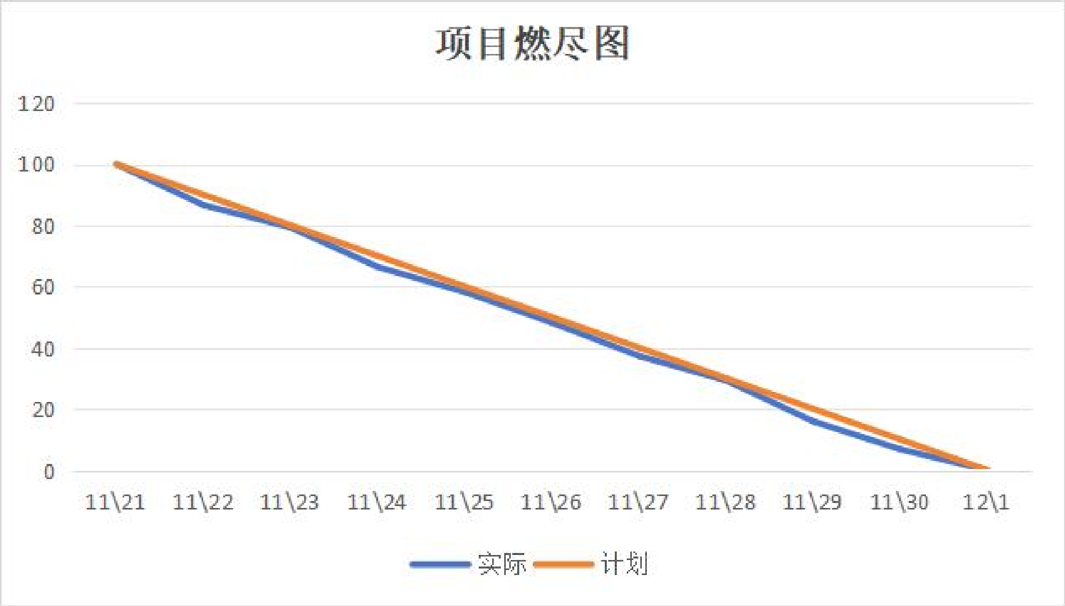
VI Emotion calendar module

2 Function description

Users have ability to view daily or past emotional diaries, and the system provides search, add, and delete functions, facilitating easy management and review of emotional records. This design allows users to effortlessly document and track their emotional fluctuations, aiding them in gaining a better understanding of their emotional states.

Project burn-down chart

Due to the reasonable division of labor and cooperation ability, our group often made progress faster than expected and achieved good results. Finally, new features were added.

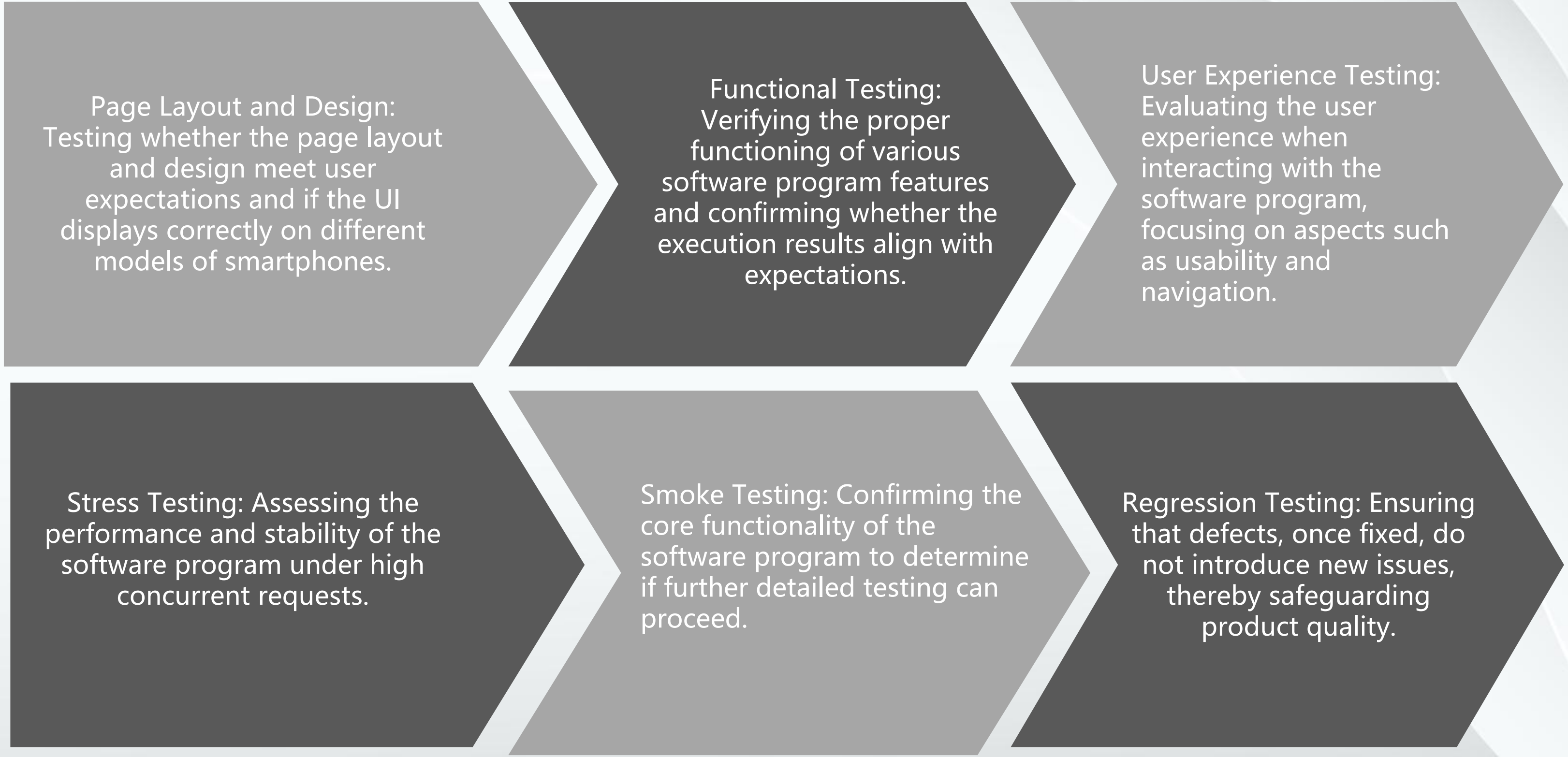


03

Testing

PART TWO

Testing contents



Page Layout and Design: Testing whether the page layout and design meet user expectations and if the UI displays correctly on different models of smartphones.

Functional Testing: Verifying the proper functioning of various software program features and confirming whether the execution results align with expectations.

User Experience Testing: Evaluating the user experience when interacting with the software program, focusing on aspects such as usability and navigation.

Stress Testing: Assessing the performance and stability of the software program under high concurrent requests.

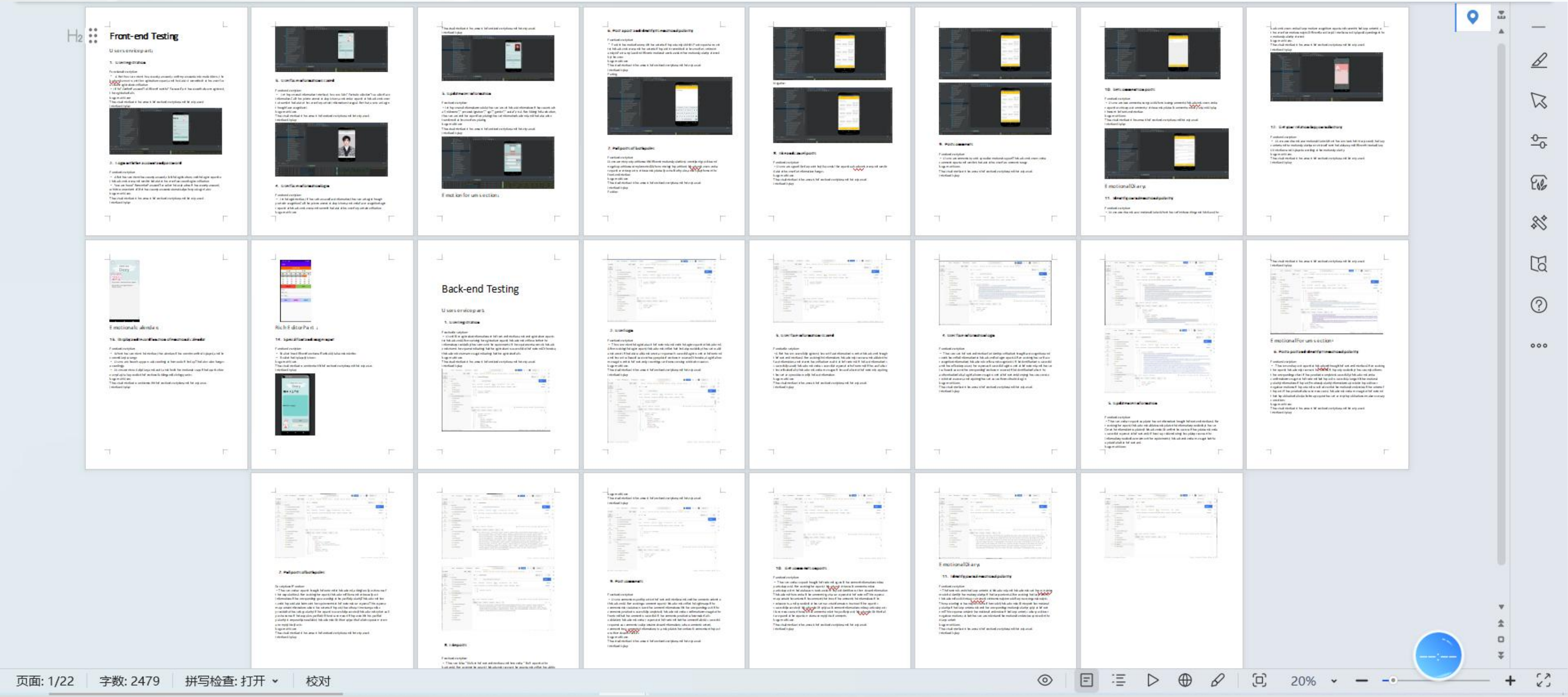
Smoke Testing: Confirming the core functionality of the software program to determine if further detailed testing can proceed.

Regression Testing: Ensuring that defects, once fixed, do not introduce new issues, thereby safeguarding product quality.

Testing results

In summary, we conducted comprehensive testing on various modules of the project. Throughout the testing process, we continuously refined test cases and procedures, enhancing both testing efficiency and quality. Test execution adhered to pre-designed test cases to ensure standardized testing with repeatable results. Recording test outcomes, identified issues, and defects, and analyzing their root causes were integral to the process, facilitating prompt team fixes and improvements. The test results indicate that our software has several issues across multiple aspects, necessitating additional time for modification and enhancement, which constitutes our team’s focus in the upcoming phase.

Testing results
25 Testing Totally



Front-end Testing

Back-end Testing

页面: 1/22 字数: 2479 拼写检查: 打开 校对

04

Current problems

PART FOUR

Problem 1

The voice changing and music player functionalities cannot be deployed in the application.

Problem 2

Layout issues and image display anomalies during real-device debugging

Problem 3

Lack of UI displays for historical records in the emotional diary module and posts in the emotional forum.

05

Next phase of our plan

PART FIVE

Follow-up planning

Serial number	Function
1	The timbre modification and music player functionalities have been implemented and need deployment in the application.
2	Integrate third-party login features, including WeChat, QQ, and Weibo login.
3	Enhance emotional forum capabilities by adding post forwarding and sharing functionalities.
4	Improve the social performance of the application by developing friend features, enabling friend chat, and diary sharing.
5	Resolve layout issues and image display anomalies during real-device debugging.
6	Based on recent emotional records, provide a more diverse range of emotional recommendations.
7	Optimize the dataset for deep learning models to achieve more nuanced emotional classifications, such as happiness, sadness, and anger.
8	Beautify all interface UIs, learning and implementing UI displays for historical records in the emotional diary module and posts in the emotional forum.
9	Subsequently, collectively brainstorm to optimize the layout of other interface UIs.

Thank You

Software Engineering