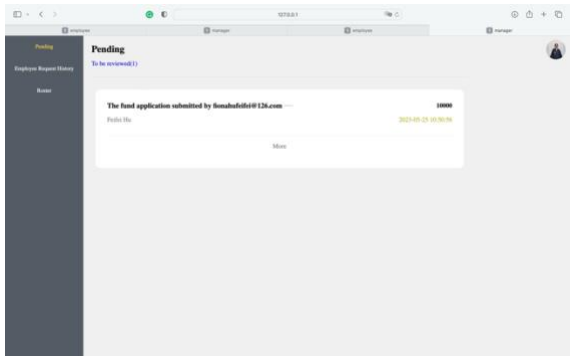
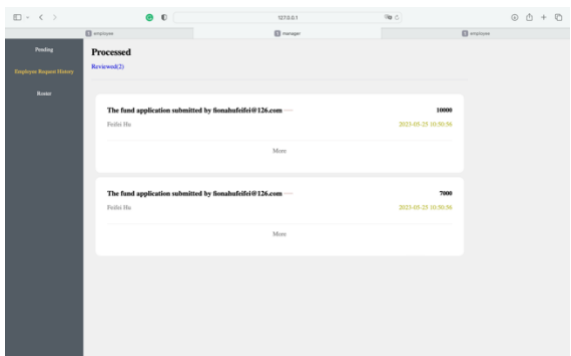


Criterion E

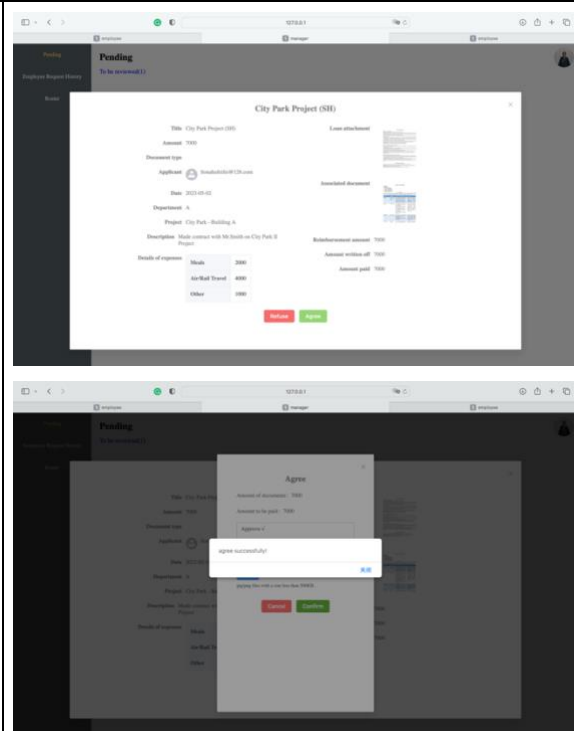
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Part1: Achieving the Success Criteria

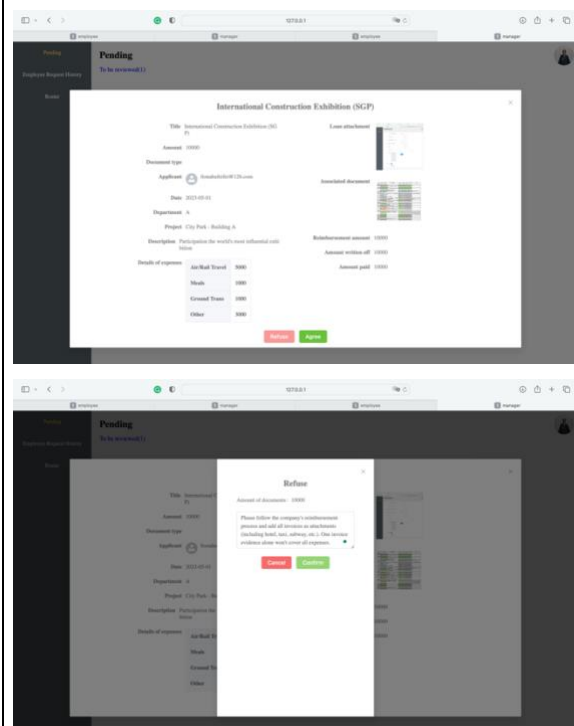
Test Point		Test Result
Financial Reimbursement System Work Flow Function		
For managers	Managers can access the "Financial Reimbursement System" module to check the employee's reimbursement requests; By clicking on the employee's avatar, managers can view all the employee's historical reimbursement request records.	<p>Yes, implemented and tested.</p> 
	Managers can approve the employee's reimbursement request in the "Financial	<p>Yes, implemented and tested.</p> 

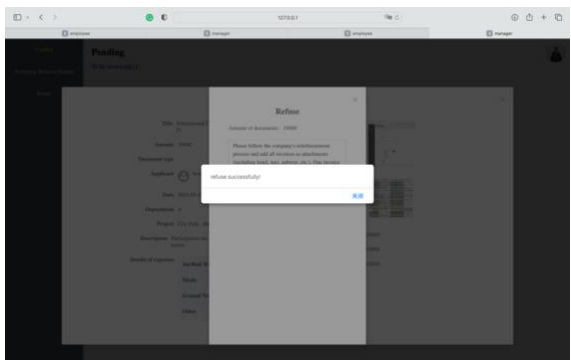
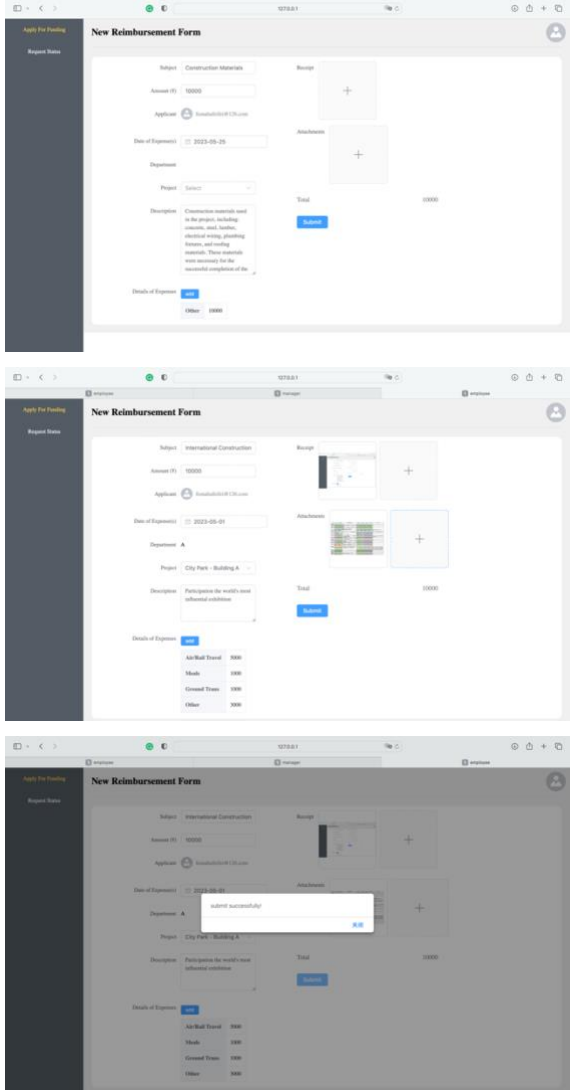
Reimbursement System" module by clicking a button.



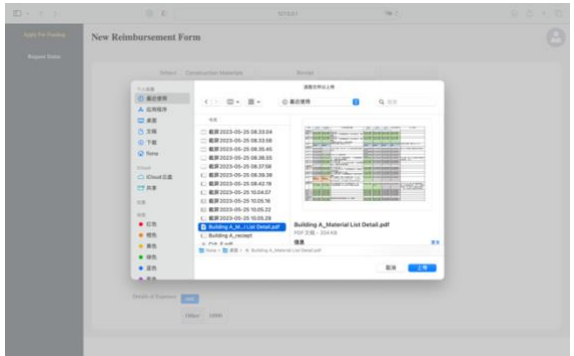
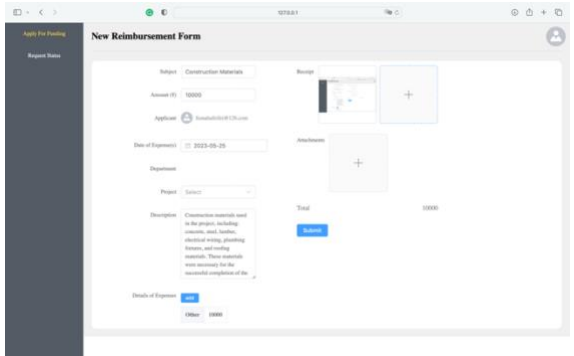
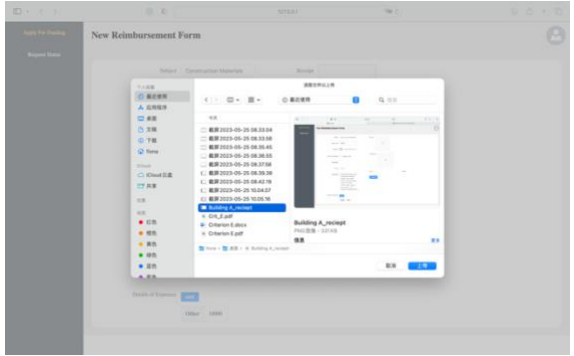
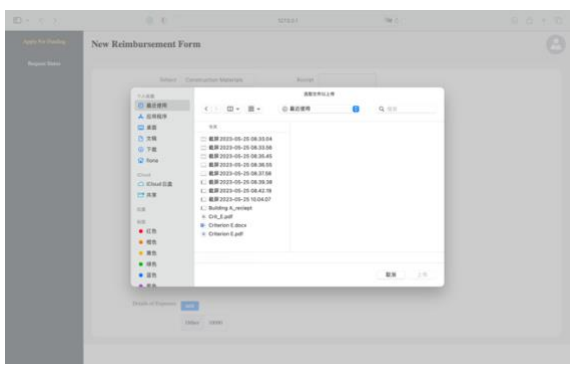
Managers can reject the employee's reimbursement request in the "Financial Reimbursement System" module and add comments (e.g. why the request was rejected, what reimbursement documents are lacking, etc.)

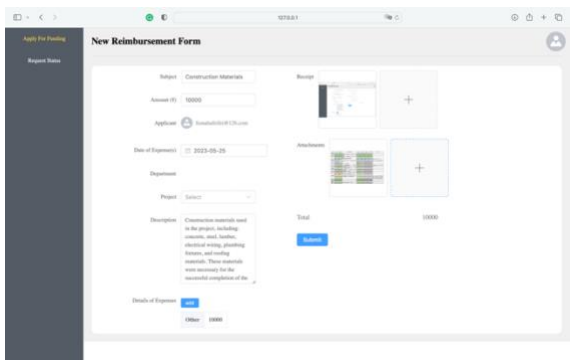
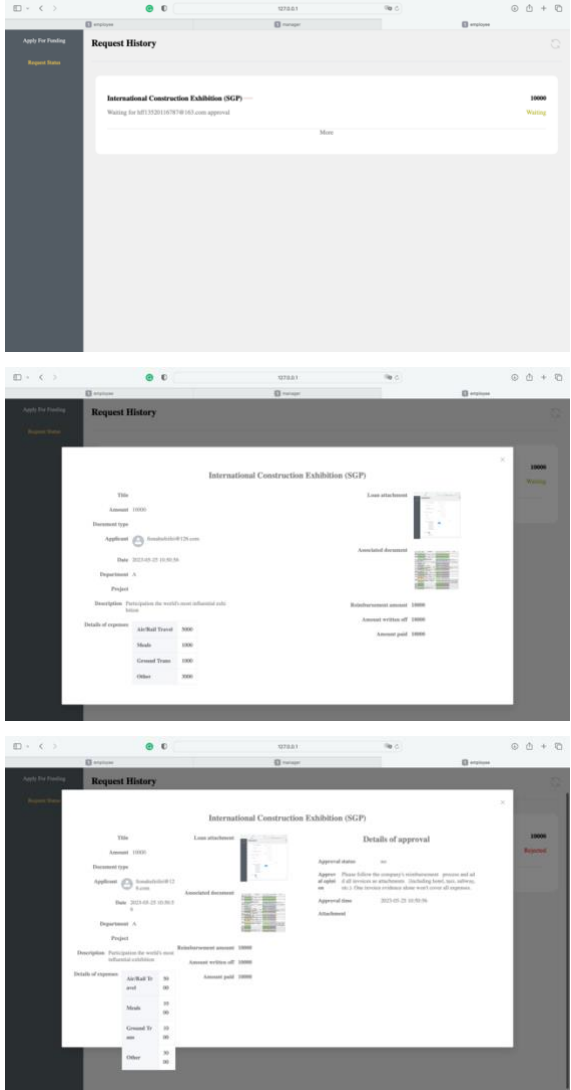
Yes, implemented and tested;

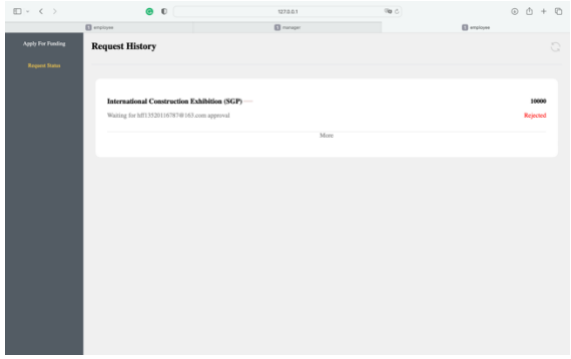
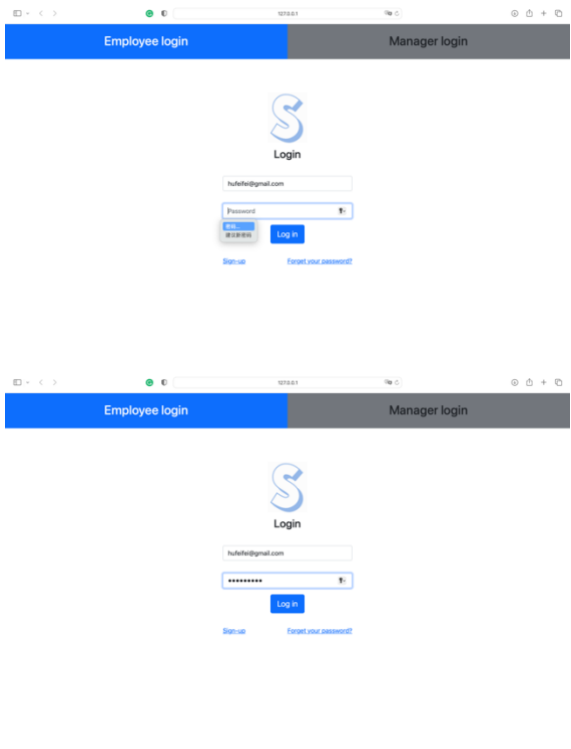
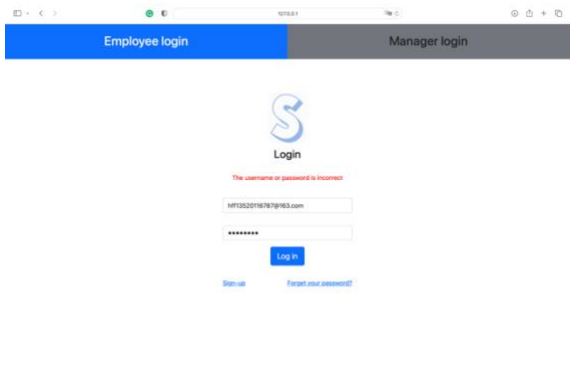


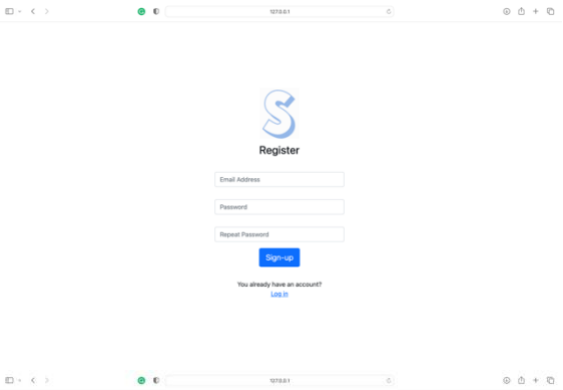

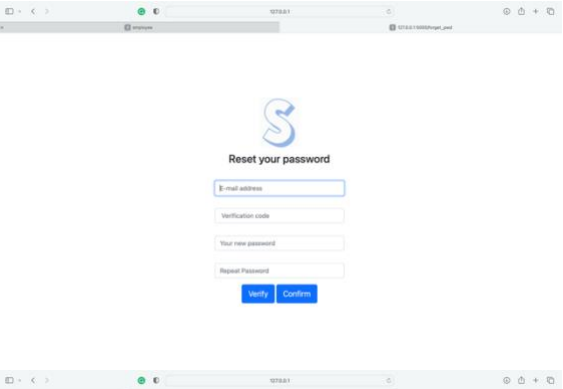
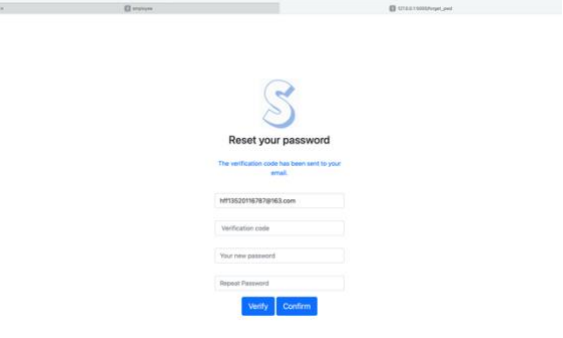
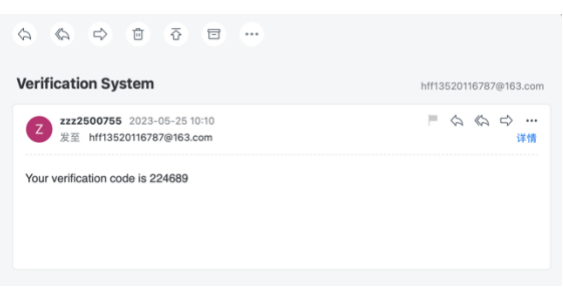
		
For employees	Employees can request reimbursement, which is required to fulfill the name of the reimbursement, the reimbursement amount, and the notes.	<p>Yes, implemented and tested.</p> 
	Employees can add attachments which is optional (e.g. reimbursement request forms, invoice evidence,	<p>Yes, implemented and tested.</p>

etc. required by the company's reimbursement process)



		
Employees can access the "Application Status" module to check their requests status; they can also view all their historical reimbursement request records.	Yes, implemented and tested.	
If the requests are rejected by the manager, employees will be notified, and they are able to adjust their previous request and	Notification function is implemented and tested; Adjustment function is not implemented.	

	resubmit in the "Application Status" module.	
Sign-in system		
Sign-in	Users can fill-in the username and the password.	<p>Yes, implemented and tested.</p> 
	If the password or username is not correct, a "wrong" notification will pop up	<p>Yes, implemented and tested.</p> 
Sign-up (register)	Users can register by setting a username (email address)	<p>Yes, implemented and tested.</p>

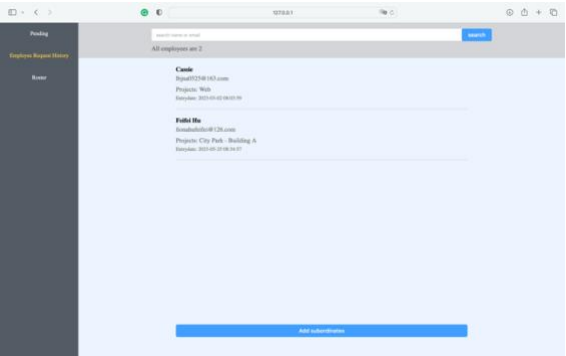
	and entering a password twice.	<div></div> <div></div>
Forgot password	Users can reset their password through email verification	<p>Yes, implemented and tested.</p> <div></div> <div></div> <div></div>

Information page

For managers

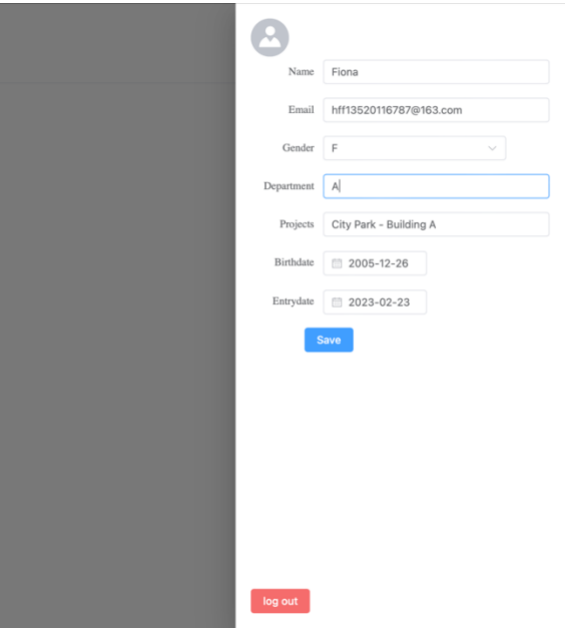
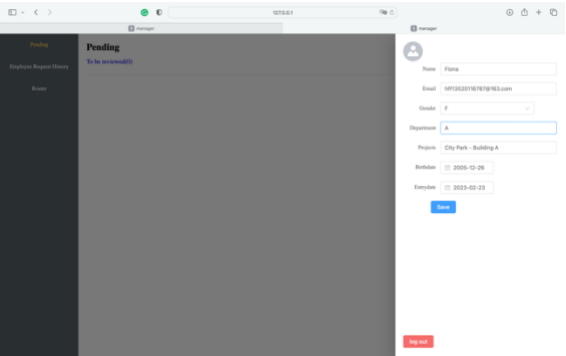
Managers will be shown a list of the employees and they can read employees' information forms by clicking the particular employee's icon.

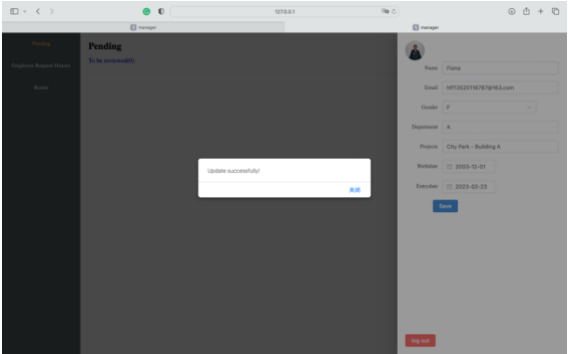
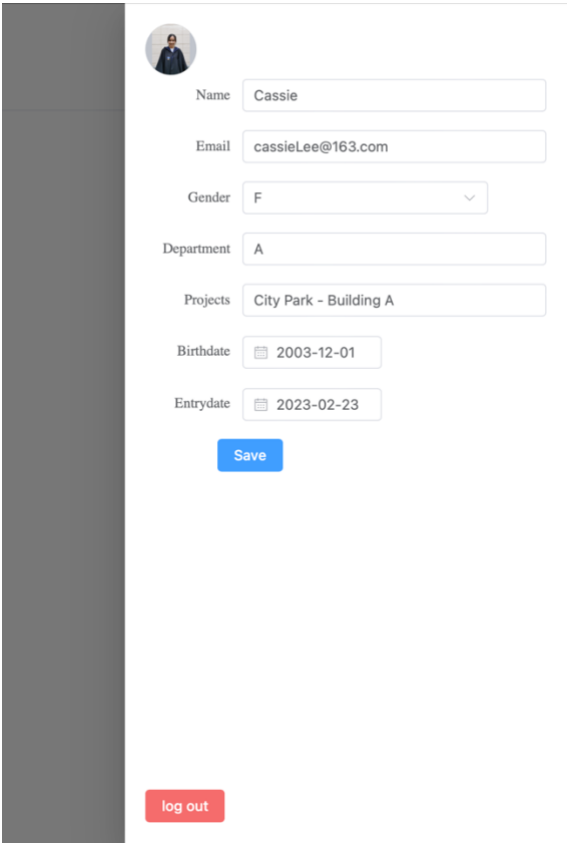
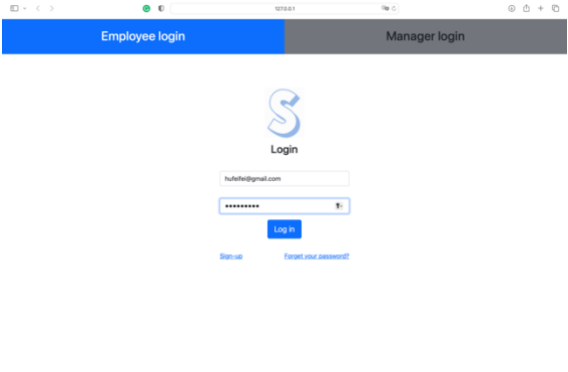
Yes, implemented and tested.

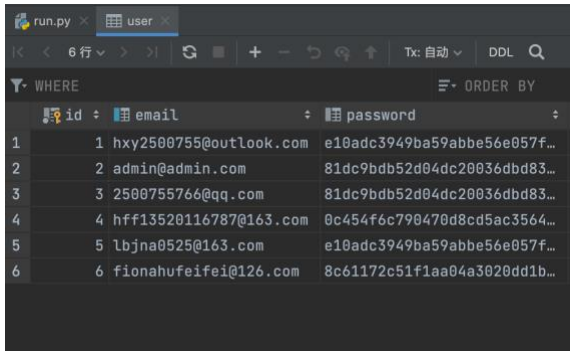
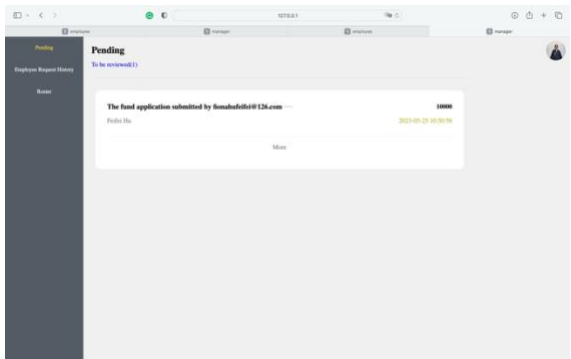


Managers can update their own portfolios by clicking on the avatar in the upper right corner.

Yes, implemented and tested.



		
For employees	Employees can update their own portfolios by clicking on the avatar in the upper right corner.	<p>Yes, implemented and tested.</p> 
User Experience Optimization		
Security	When users enter passwords to log in, the passwords are displayed with multiple “*” instead.	<p>Using dot instead of “*”.</p> 

	When a user registers for an account, the password is stored in the database in the form of a cipher text.	<p>Yes, implemented and tested.</p>  <table border="1"> <thead> <tr> <th>id</th> <th>email</th> <th>password</th> </tr> </thead> <tbody> <tr><td>1</td><td>hxy2508755@outlook.com</td><td>e10adc3949ba59abbe56e057f...</td></tr> <tr><td>2</td><td>admin@admin.com</td><td>81dc9bdb52d04dc20036dbd83...</td></tr> <tr><td>3</td><td>2508755766@qq.com</td><td>81dc9bdb52d04dc20036dbd83...</td></tr> <tr><td>4</td><td>hff13520116787@163.com</td><td>0c454f6c790470d8cd5ac3564...</td></tr> <tr><td>5</td><td>lbjna0525@163.com</td><td>e10adc3949ba59abbe56e057f...</td></tr> <tr><td>6</td><td>fionahufeifei@126.com</td><td>8c61172c51f1aa04a3020dd1b...</td></tr> </tbody> </table>	id	email	password	1	hxy2508755@outlook.com	e10adc3949ba59abbe56e057f...	2	admin@admin.com	81dc9bdb52d04dc20036dbd83...	3	2508755766@qq.com	81dc9bdb52d04dc20036dbd83...	4	hff13520116787@163.com	0c454f6c790470d8cd5ac3564...	5	lbjna0525@163.com	e10adc3949ba59abbe56e057f...	6	fionahufeifei@126.com	8c61172c51f1aa04a3020dd1b...
id	email	password																					
1	hxy2508755@outlook.com	e10adc3949ba59abbe56e057f...																					
2	admin@admin.com	81dc9bdb52d04dc20036dbd83...																					
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5	lbjna0525@163.com	e10adc3949ba59abbe56e057f...																					
6	fionahufeifei@126.com	8c61172c51f1aa04a3020dd1b...																					
Notification	When there is new information (e.g., application progress update, etc.), an alert message will appear on the home page.	<p>Yes, implemented and tested.</p> 																					

Part B: Client's Feedback

After the prototype of software implemented and delivered, my client has an initial trial of 2 weeks. She gave us some opinions as follows:

- The software simplifies the process of reimbursement management, which meets their main demands. Employees and managers could deliver and handle application anywhere and anytime.
- The historical function provides lots of convenience to the trace of application. Without the help of software, accountants need to scan over paper material, spending lot of time clearing up and records. Now, they just need to copy information from the apply history and save several hours.
- UI design is easy for using. Fast response and fluent dynamic effect provide well user experience. From her own opinion, she enjoys this kind of clear and easy style.

- Generally, the interactive design is well. Most employees have little difficulty using the system for application. However, some feedback said that employees could not find where to modify their personal information, which is folded in the right-side bar. Maybe fixed it on the left bar is clearer for user.
- Some additional functions could promote the work process better. Software could import the application information in the format of EXCEL or TXT, which would be a big help for digitalization. Another requirement is the sorting function. Managers could sort the applications by the total price or delivery time.

Part C: Recommendation For Future

Improvements

First is deployment. Now the software is just a prototype that runs on the localhost. For actual usage, we need to host it on an online server thus allowing access from the public network. So, the next step of online deployment is purchasing and configuring a cloud server. We need to ensure the server environment has required running dependencies and serve modules such as Apache or nginx. Some information in this software involves personal and company privacy, so after deploying the internet, we should apply a domain name and SSL certification, replacing Http with Https.

Second is maintenance. As a part of corporate program, it should provide some methods for monitoring to ensure its reliability. This includes log records, monitoring platform, and automatic backup. We plan to use platforms such as Google Cloud platform. It provides integrated services like warning message notification and a visualized application monitoring window.

Third is the mobile edition. By supporting phones, the system could have real-time availability in real sense. Moreover, the predicted workload is not large. This software applies Vue and Element UI, which supports responsive design, so it just needs few adjustments to migrate web pages to mobile pages. And we could reuse the backend without any modification. But we still need some optimization like redesigning UI for touch interaction and smaller page size.

Finally, I plan to optimize the connections between relational databases, remove redundant and

duplicate information, and keep the database simple and efficient. For software features, I plan to support importing application information in EXCEL or TXT format, which meets the client's needs for digital management. The sorting function is also a part of the project that will be improved in the future. According to client's feedback, managers can sort applications by total price or delivery time.

FUTURE IMPROVEMENTS

Current Situation

- **Runs on the localhost**
- **Limited monitoring methods**
- **Web application**

Future Plans

- **Online deployment**
- **Visualized application monitoring window**
eg. Google cloud platform
- **Mobile edition**

- **Optimize the connections between relational databases**

Word Count: 280