

Assignment T3: First Iteration

Team Iceberg

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Part 1:

<https://github.com/JackSnowWolf/Iceberg>

Database behind our application is already configured in the github repo. We used AWS cloud database.




Part 2:

User Stories and Acceptance Tests

8 User Stories in total: 4 for Normal User, 2 for Group Manager, 2 for Administrator

Normal User Part

Normal user's function tab:

Reimbursement		
	All Request	>
	Approved Request	>
	Statistical Report	>

User Story 1:

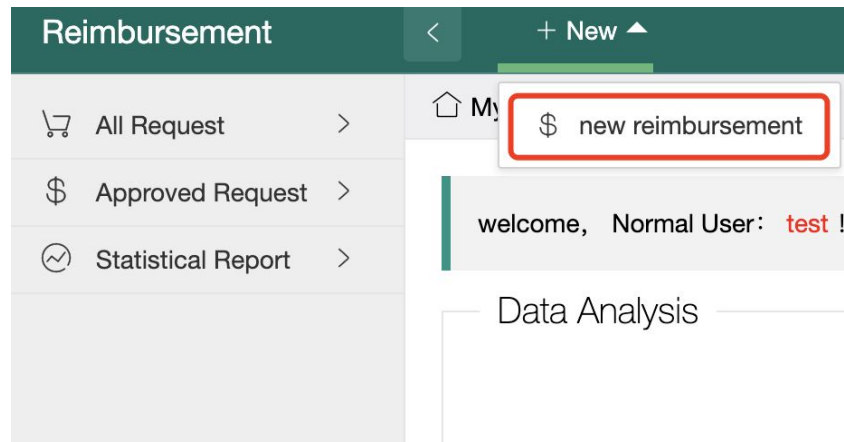
As a normal user, I want to apply for reimbursement so that I can upload invoices to submit an expense account.

My conditions of satisfaction are:

Users can fill reimbursement forms to make reimbursement requests to the financial department to examine.

Acceptance Test:

- Valid Input:
At the homepage, click "new reimbursement"



Then fill your information in the form, click "Add"

new reimbursement

Title

Bus fee

Money

20

Type

Transport

Pay way

Paypal

Receiver

gg@paypal.com

Invoice

Upload Invoice

Add

Then in "All Request"- "Request Details" Tab, you can check posted requests.

Reimbursement < + New Your role is: normal user Testuser

My Dashboard Approval Details Request Details

Homepage / Details

Name Title status payway

Explore Reset

+ ADD Total count: 2

Index	Title	Userid	Requestid	Real Name	Money	Usage Type	Payway	Payway Name	Receiver	Time	Status	Operation
1	Bus fee	2	227	Tester	20.00	Transport	0	Paypal	gg@paypal.com	2020-11-19 08:50:35	PROCESSING	
2	iceberg	2	223	Tester	10.00	test	1	Paypal	sb-7agtb3731178@personal.example.com	2020-11-17 11:56:53	APPROVED	

< 1 > 10 items/page

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We can see a new request is added.

- Invalid Input:

When adding information, if a user enters an invalid money amount, like not a number. Or if he leaves key information blank. He is not able to post a request.

new reimbursement

Title Please input title

Money a12

Type Please fill type

Payway Payway

Required fields cannot be empty

Invoice Upload Invoice

Add

- Discussion

At first, even if a user fills in the form correctly, he is still not able to add the request. When clicking "Add", it shows "Operation failed, call exception".

This is because the sql statements in codes don't match database tables. For example, table names or column names don't match. Check the database and revise it.

What's more, at first, the front-end doesn't read the back-end data very accurately, so some of the columns may be wrongly filled. This is because when we try to initiate the form from the parent table element, we haven't aligned the elements and we have fixed it now.

User Story 2:

As a normal user, I want to check reimbursement status so that I can keep track of the reimbursement process and manage my expenses.

My conditions of satisfaction are:

- Users can check the status of each reimbursement.
- Users can revise or supplement their reimbursement information.
- Users can delete their requests.

Acceptance Test:

- Valid Input:

In "All Request" Tab, click "Request Details". Then users can check the status of his reimbursements.

Reimbursement Management System Interface Screenshot:

Header: Reimbursement | + New | Your role is: normal user | Testuser

Navigation: All Request | Request Details | Approved Request | Statistical Report

Filters: Name | Title | status | payway | Explore | Reset

Table:

Ind ex	Title	Userid	Reque stId	Real N ame	Money	Usage Ty pe	Payway	Payway Name	Receiver	Time	Status	Operation
1	Bus fe e	2	227	Testus er	20.00	Transport	0	Paypal	gg@paypal.com	2020-11-19 08:50:35	PROCES SING	✎ 🗑
2	iceber g	2	223	Testus er	10.00	test	1	Paypal	sb-7agtb3731178@personal.examp le.com	2020-11-17 11:56:53	APPROV ED	✎ 🗑

Footer: Copyright ©2020 Reimbursement Management System COMS4156 Iceberg

Then at the "Operation" column. Click the little pencil button, users are able to edit his requests.

edit

Title	Bus fee
Money	20.00
Type	Transport
Pay way	Paypal
Receiver	gg@paypal.com
Invoice	<div>Upload Invoice</div>
<div>Update</div>	

Click the trash bin button, users are able to delete the request.

Are your sure to delete this request

Yes

No

What’s more, users are able to search and filter requests by “Name”, “Title”, “status”, “payway”.

Homepage / Details

Name

Title

status

payway

Explore

Reset

ADD

status

status

PROCESSING

MISSING INFO

DENIED

APPROVED

payway

Paypal

Cash

Debit

Venmo

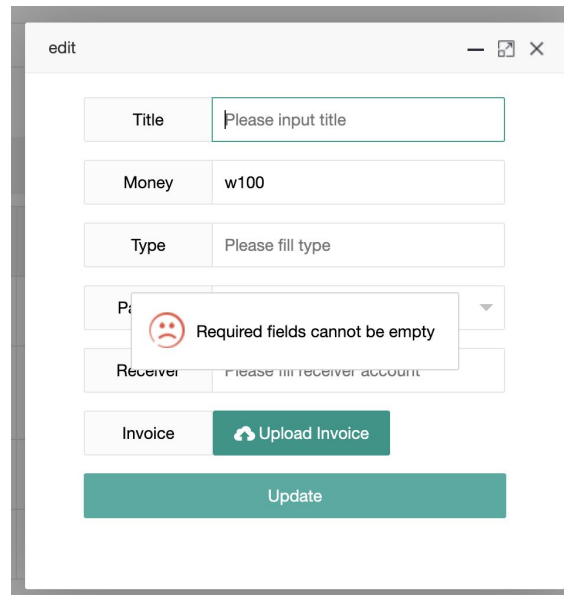
Others

Ind ex	Title	UserId	Reque stId	Ré s	Recei ver	Money	Pay way	Payway Name	Receiver	Time	Status	Total
1	Bus fe e	2	227	Testus er	20.00			Paypal	gg@paypal.com	2020-11-19 08:50:35	PROCES SING	
2	Test U sage	1	210	hwj	100.00	For test...	1	Paypal	null	2020-11-17 20:23:20	APPROV ED	
3	Test U sage: f indBy Where NoPag e	1	207	hwj	100.00	For test...	1	Paypal	null	2020-11-17 20:23:20	APPROV ED	
4	Test U sage	1	209	hwj	100.00	For test	1	Paypal	null	2020-11-17 20:23:20	APPROV ED	
	Test U sage: f indBy									2020-11-17	APPROV	

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- Invalid Input

When a user edits a request, if the revised information is not valid (like title is empty or money is not a number), then he is not able to update.



The screenshot shows a web form titled 'edit' with a close button. It contains several input fields: 'Title' with placeholder text 'Please input title', 'Money' with 'w100', 'Type' with 'Please fill type', and 'Receiver' with 'Please fill receiver account'. A dropdown menu is partially visible above the 'Receiver' field. A red error message box with a sad face icon is overlaid on the form, stating 'Required fields cannot be empty'. Below the form is an 'Invoice' label, an 'Upload Invoice' button with a cloud icon, and a large teal 'Update' button.

Also when searching, if users type in a keyword that doesn't exist, the result will be null.

- Discussion

After clicking Request Details, it may appear "Operation failed, call exception" and can't load requests' information. That is because it misses a row in the "payway" table which represents a "null" payway that causes foreign key constraint. Add such a row and the system works correctly.

What's more, firstly we just show the paywayid in the front-end, but it is better to show the payway string like "Paypal", "Venmo" and "Cash" in order to be more explicit.

(This user story is deleted. Its function is merged into user story 2.)

User Story:

As a normal user, I want to revoke my request so that I can make some changes if I typed in wrong information.

My conditions of satisfaction are:

i. I can revoke my processing requests, then the status of that request will be changed to "CANCELLED".

User Story 3:

As a normal user, I want to receive emails so that I can get noticed when I successfully post a request or my requests' status changes.

My conditions of satisfaction are:

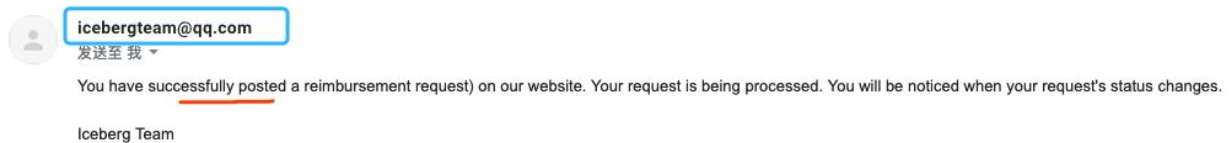
i. When I finish a request and submit, I should receive an email to notify me about this.

ii. When group managers approve or deny my request. I should receive an email that tells me how my request is going so that I needn't log in to the system to do that.

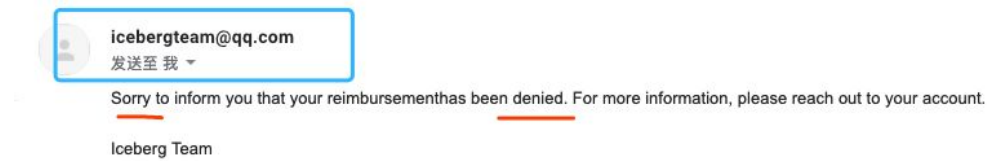
Acceptance Test:

- Valid Input

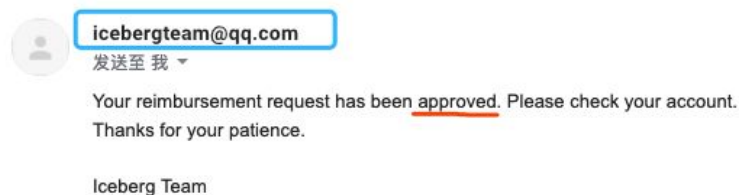
When a user successfully posts a reimbursement request (like in user story 1), he will receive a confirmation email that notifies him about the request.



When a user's requests are denied by his group manager, he will receive an email.



When a user's requests are approved by his group manager, he will receive an email.



- Invalid Input

This user story could not possibly involve invalid inputs. Because the satisfactions are not fulfilled by normal users' operation. They are mainly triggered by group managers' operation. As long as users' requests status change, he will receive email.

However if a user's email information is not valid. He can not receive emails when his requests' status change.

- Discussion

Even if a user's information is correct, he is still not able to receive emails. We found that it is because the email configuration is not correct so that the system cannot access email service. Fix the configuration.

What's more, we should try to make the sending email process asynchronous in the future in order to make our process run more smoothly.

(This user story is deleted. This function can't operate successfully now. We will fulfill this user story later.)

User Story:

As a normal user, I want that it can automatically help me fill the reimbursement application form when I upload the scanning file of my invoice or receipt, so that it will save me some time.

My conditions of satisfaction are:

i. I can upload my scanning file of invoice and receipt.

ii. The system can recognize the character on my file and fill in the form automatically (it is acceptable that there may be some mistakes), and provide me with the form that I can re-edit and revise the information.

User Story 4:

As a normal user, I want to see my statistics of my historical reimbursements so that I can manage my expenses better.

My conditions of satisfaction are:

I can view my historical reimbursement data in terms of different charts, such as pie charts (different types of reimbursements), bar charts (expense versus data), etc.

Acceptance Test:

- Valid Input

Log in the homepage, click "All Request" - "Request Details". Then the user is able to see all his requests.

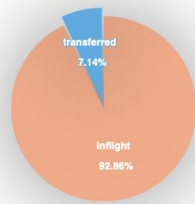
Total count: 3

Index	Title	Userid	Requestid	Name	Money	Type	Receiver	Time	Status	Operation
1	buy a car	54239290	241	mark2447	12.00	item		2020-11-18 11:59:47	PROCESSING	✍ 查
2	sdfidf	54239290	199	mark2447	1.00	234sdf	null	2020-11-17 10:15:37	PROCESSING	✍ 查
3	hwjhwj	54239290	197	mark2447	1.00	1234	sb-7agtb3731178@personal.example.com	2020-11-17 09:30:29	APPROVED	✍ 查

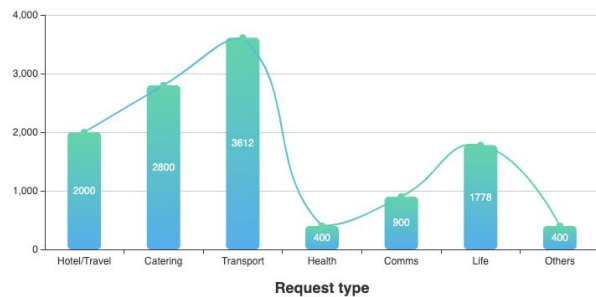
Click "Approved Request" - "Approval Details". The user is able to

Click "Statistical Report" and the user will see 3 charts analysing all his bills.

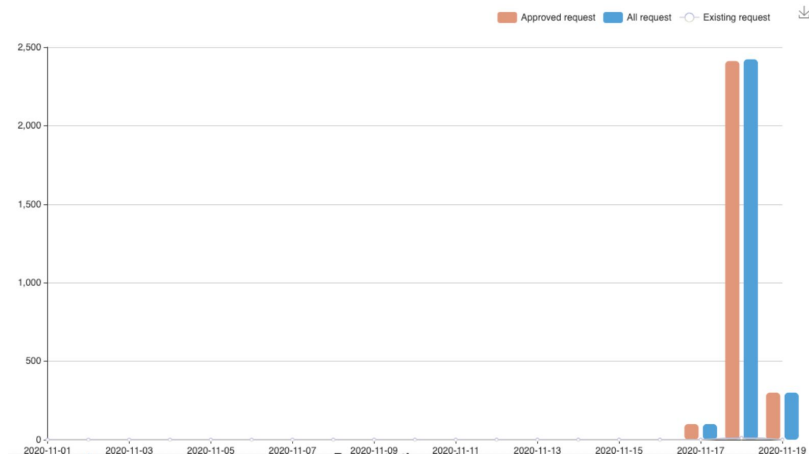
Data Analysis



inflight - transferred this month







Request type



The first pie chart represents the percentage of approved and unapproved money amounts. The second chart shows how much a user has spent for a specific category. The third chart shows a user's request by day.

- Invalid Input
This acceptance test could not possibly involve invalid inputs. Because this test only involves click operations.
- Discussion
At first, we can just plot the first chart and the second and third chart are invalid in the front-end view. It is because there are some bugs in the Javascript function we wrote in the front-end. After fixing the bugs, the charts have been showed accurately.

Group Manager Part
Group manager's function tab:

Reimbursement		
	All Request	>
	Approved Request	>
	Statistical Report	>
	Group Members Mgmt	>

User Story 1:

As a group manager, I want to examine and approve all reimbursement applications submitted by normal users so that I can manage all reimbursements through the system.

My conditions of satisfaction are:

i. Group managers can examine and approve reimbursement applications submitted by employees.

ii. Group manager can change the status reimbursement applications to PROCESSING, MISSING INFO, DENIED, APPROVED.

Acceptance Test:

- Valid Input

When logging in with a group manager account, on homepage click “Outcome Mgmt” - “Outcome Details”. The group manager will see all the requests posted by group members.

Reimbursement < + New Your role is: group manager group1

My Dashboard Request Details

Homepage / Details

Name Title status payway

Explore Reset

+ ADD Total count: 16

Index	Title	Userid	Requestid	Real Name	Money	Usage Type	Payway	Payway Name	Receiver	Time	Status	Operation
1	Bus fee	2	227	Tester	20.00	Transport	0	Paypal	gg@paypal.com	2020-11-19 08:50:35	PROCESSING	Review
2	iceberg	2	223	Tester	10.00	test	1	Paypal	sb-7agtb3731178@personal.example.com	2020-11-17 11:56:53	APPROVED	Review
3	兼职	3	194	group 1	966.00		1	Paypal	null	2020-03-24 14:56:07	DENIED	Review
4	购物	3	193	group 1	556.00		1	Paypal	null	2020-03-24 14:55:37	MISSING_INFO	Review
5	购物	3	190	group 1	180.00		1	Paypal	null	2019-05-27 10:04:24	MISSING_INFO	Review
6	工资	6	182	测试3	800.00		3	Debit	null	2019-04-26 17:29:31	DENIED	Review

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For every request, the group manager can click on “review” button. Then he is able to check the details of the requests.

Index	Userid	requestid	Title	Name	Money	Remark	Receiver	Time	Status	Operation
1	2	226	test1108	Tester	12.00	test1108		2020-11-17 20:08:15	PROCESSING	Review

After reviewing the requests, the group manager can change the status of the request to “MISSING INFO”, “DENIED” or “APPROVED”.

review

Title test1108

Money 12.00

Type Please fill type

Pay way Status

Receiver MISSING INFO

Invoice DENIED

Status APPROVED

APPROVED

Review

If the request is denied, the user will receive an email. If the request is approved, the user will receive an email and money will be sent to his account automatically.

review — 🖨️ ✕

UserId	8888
Title	taxi
Money	12.00
Type	transport
Pay way	Pay way ▼
Receiver	sb-7agtb3731178@personal.example.
Invoice	Invoice
Status	APPROVED ▼

Review

Summary
Activity
Send & Request
Wallet
Deals and Offers
Help

LOG OUT

Good evening, John

PayPal balance

\$5,986.00

Available

Transfer Money

Send again

John Doe...
 Search

Recent activity

NOV 17
John Doe's Test Store
Payment Received
+\$12.00

NOV 17
John Doe's Test Store
Payment Received
+\$1.00

NOV 17
John Doe's Test Store
Payment Received
+\$1.00

View all activity

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Accept Cookies

- Invalid Input

If the group manager approves a request that doesn't have a related receiver's account, which means the money can't be sent to paypal correctly, this operation can't pass.

The screenshot shows a web form titled 'review'. It contains the following fields and elements:

- Title:** A text input field containing 'test1108'.
- Money:** A text input field containing '12.00'.
- Type:** A text input field containing 'Please fill type'.
- Pay way:** A dropdown menu with 'Pay way' selected.
- Receiver:** A text input field containing 'Please fill receiver account'. A dark grey error message box is overlaid on this field, stating 'No receiver account'.
- Invoice:** A green button with a cloud icon and the text 'Invoice'.
- Status:** A dropdown menu with 'APPROVED' selected.
- Review:** A large green button at the bottom of the form.

- Discussion

If the receiver account a user provides is not valid, when the request is approved, the process may time out and fail. We can fix it by doing these two operations asynchronously.

There is a front-end and back-end data synchronization error at the beginning, after fixing some codes in the HTML file, we have fixed the bugs.

User Story 2:

As a group manager, I want to add group members and check the whole group's bills so that I am able to better manage my group.

My conditions of satisfaction are:

- On the group page, I can add a group member into my group.
- On the group page, I can see all visualized statics charts of the group's budget.

I can view my group historical reimbursement data in terms of different charts, such as pie charts (different types of reimbursements), bar charts (expense versus data), etc.

Acceptance Test:

- Valid Input

- When logging in as a group manager, click "Group Members Mgmt" - "Group Members Info" - "Add".

Reimbursement

Your role is: group manager group1

My Dashboard Request Details Group Members Info

Homepage / Group Member Management / Group Member

username choose user roles search

ADD Total count: 3

No.	User Name	Real Name	Email	Role	Group ID	Operation
1	group1	group1	chenzeyang6@gmail.com	Group Manager	1	✎ 查
2	test	Testuser	chenzeyang6@gmail.com	Normal User	1	✎ 查
3	ceshi	测试3	-	Normal User	1	✎ 查

< 1 > 10 items/page 刷新 到第 1 页 确定

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add users

User Name please enter username

Password 123456

Real Name please enter real name

Role choose roles

Group ID please enter group id

Email please enter email

Submit

Fill in the user information form and click submit. Then a new user is added successfully.

ii. Click “Statistical Report” and the group manager will see 3 charts which is the same as shown in normal user’s user story 4. However, it counts the whole group’s bills here.

- Invalid Input

When filling user’s information, all the information must be provided and Group ID must be an existing group. Otherwise the add operation cannot succeed.

se
add users

User Name

please enter username

Password

123456

Real Name

test5

Group id

Email

please enter email

Submit

Required fields cannot be empty







- Discussion

After clicking submit, it shows “Operation fail, call exception”. Check the database and we find that column names don’t match between frontend pages and database tables.



Administrator Part

Administrator's function tab:

Reimbursement		
	All Request	>
	Approved Request	>
	Statistical Report	>
	System Mgmt	▼
	User Mgmt	
	Role Mgmt	

User Story 1:

As an administrator, I want to manage the reimbursement groups accounts so that I can give them the right to the group manager to manage their group member's reimbursement.

My satisfaction conditions are:

- i. Administrator can create, edit or delete the accounts
- ii. Administrators can create many groups depending on setting different group numbers.

Acceptance Test:

- Valid Input
- i. As an administrator, I click the System Mgmt then click the User Mgmt (red framed).

Reimbursement < + New

Your role is: administrator hwj











My Dashboard User Mgmt

Homepage / System Management / User Management

username choose user roles search

User Mgmt ADD

Total count: 57

No.	Username	Realname	Role	Group ID	Operation
1	hwj	hwj	Administrator	-	 
2	Jack	cwj	Administrator	-	 
3	test101	test101	Administrator	-	 
4	house2	house2	Group Manager	-	 
5	aa	-	Normal User	-	 

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Then I will enter the user management page. Then I press the “add” , “edit”, “delete” button (blue framed) to do the operation. If I press “delete”, the user is deleted.

add users

User Id

User Name Jack

Password 123456

Real Name cwj

Role choose roles

Group ID choose roles

Email

Submit

edit

User Id 24

User Name hello

Password 123456

Real Name hello

Role Normal User

Group ID 4









Email zc7654@columbia.edu

Submit

No.	Username	Realname	Role	Group ID	Operation
1	hwj	hwj	Administrator	-	 
2	Jack	cwj	Administrator	-	 
3	house2	house2	Group Manager	-	 
4	test	Wenjie Chen	Group Manager	-	 

This is the two windows pop up after I press the “add”, “edit”. I give the user a role. Then submit the change. The change shows up on the page successfully. The first satisfaction passes.

ii.

ADD						Total count: 4
No.	User Name	Real Name	Email	Role	Group ID	Operation
1	hwj	hwj	hwj97055@gmail.com	Administrator	2	 
2	1117test	1117test	-	Group Manager	2	 
3	test9c4814f2-94fb-44ab-8f22-0666af368358	-	-	Normal User	2	 
4	test1116	-	-	Normal User	2	 

As an administrator, I set the group ID for a user to make him/her in different groups.

add users

User Name

please enter username

Password

123456

Real Name

please enter real name

Role

choose roles

Group ID

please enter group id

Email

please enter email

Submit

edit

User Name

test9c4814f2-94fb-44ab-8f22-0666af368358

Real Name

-

Role

choose roles

Group ID

please enter group id

Email

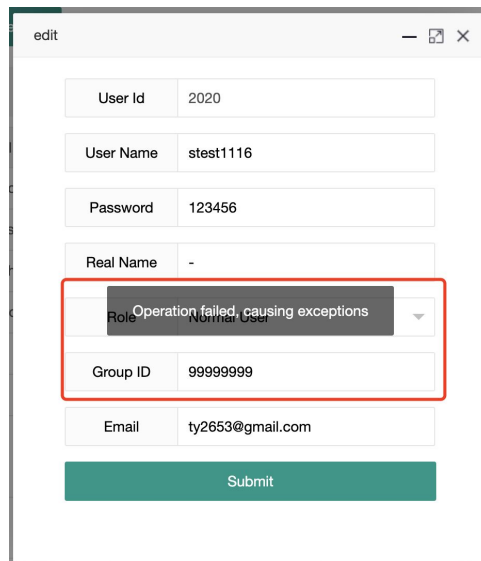
please enter email

Submit

Then the user is successfully set to a group. The second satisfaction passes.

- Invalid Input

If a user is assigned to a group that does not exist. The add/update operation will fail.



The screenshot shows a web form titled "edit" with several input fields. A red rectangle highlights the "Role" field, which contains the text "Operation failed, causing exceptions". The other fields are: "User Id" (2020), "User Name" (stest1116), "Password" (123456), "Real Name" (-), "Group ID" (99999999), and "Email" (ty2653@gmail.com). A "Submit" button is at the bottom.

User Id	2020
User Name	stest1116
Password	123456
Real Name	-
Role	Operation failed, causing exceptions
Group ID	99999999
Email	ty2653@gmail.com

Submit

- Discussion

At first we found the update operation failed. It was because some parameter types don't match between entities and database fields. Fix it and it works.

User Story 2:

As an administrator, I want to have the report of the reimbursement statistics of each group so that I can understand the allocation and use of the company's funds.

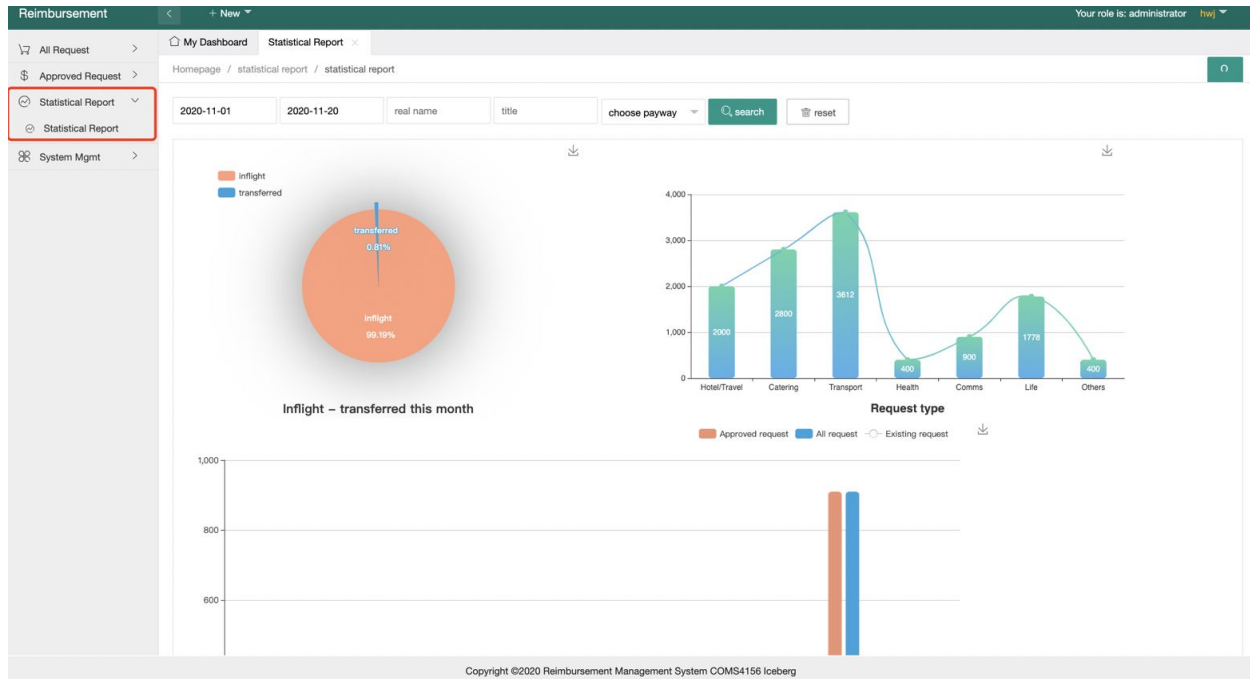
My satisfaction conditions are:

- i. Administrators can see the reimbursement statistics of each group.

Acceptance Test:

- Valid Input

As an administrator, I clicked on "statistical report", then I saw various charts. I set different variables including start date, end date, and so on. Then clicked "search". The corresponding chart showed up. The default condition is all data.



- Invalid Input
On the search bar, we have to insert valid input. If I insert invalid one, such as invalid time, the system will alert me to insert valid input.
- Discussion
TODO: Trying to show charts with different groups to admin.

Part 3:

The link to the folder(s) within your github repository containing all the test cases that are automatically invoked by your unit testing tool.

Test cases:

<https://github.com/JackSnowWolf/Iceberg/tree/master/src/test/java/com/iceberg>

To run all the cases: right click the project main directory and click "run all test cases" or "run all test cases for coverage". (Not using "maven test!")

The link to the file(s) in your repository that configure the build tool and/or package manager and the automated unit testing tool.

pom.xml:

<https://github.com/JackSnowWolf/Iceberg/blob/master/pom.xml>

application.yml:

<https://github.com/JackSnowWolf/Iceberg/blob/master/src/main/resources/application.yml>

<ul style="list-style-type: none">▼ ✓ OAuthControllerTest<ul style="list-style-type: none">✓ testGithubLogin✓ testparseGithubObject✓ testParseAccessToken▼ ✓ UserInfoControllerTest<ul style="list-style-type: none">✓ testGetSessionUser✓ testGetUserByWhere✓ testLogin✓ testGetAllRoles✓ testUserAdd✓ testUserDel✓ testRoleUpdate✓ testUserUpdate✓ testRoleAdd✓ testRoleDel✓ testGetRoleById✓ testToLoginPage✓ testLogOut✓ testToPage	<ul style="list-style-type: none">▼ ✓ MailUtilsTest<ul style="list-style-type: none">✓ testSendEmail()▼ ✓ PayPalServiceImpITest<ul style="list-style-type: none">✓ createPayoutBatchTest()✓ getPayoutBatchAndItemTest()✓ createPayoutTest()✓ cancelPayoutItemTest()▼ ✓ PrivilegeMapperTest<ul style="list-style-type: none">✓ getPrivilegeByRoleId()✓ delPrivilegesWhenDelRoleTest()✓ addDefaultPrivilegesWhenAddRoleTest()▼ ✓ UserInfoMapperTest<ul style="list-style-type: none">✓ addRoleTest()✓ addUserTest()✓ getAllRolesTest()✓ getToatlByWhereTest()✓ updateTest()✓ getUsersByWhereTest()✓ updateRoleTest()✓ getRoleByIdTest()✓ getUserInfoTest()✓ deleteTest()✓ deleteRoleTest()✓ userIsExistedTest()	<ul style="list-style-type: none">▼ ✓ ReiRequestMapperTest<ul style="list-style-type: none">✓ findByWhereNoPage()✓ delReiRequestTest()✓ addReiRequestTest()✓ updateReiRequestTest()✓ findByWhereForNormalUser()✓ findByWhereForGroupManager()▼ ✓ ReiRequestControllerTest<ul style="list-style-type: none">✓ shouldDelReiRequest()✓ shouldApproveReview()✓ shouldAddReiRequest()✓ shouldGetReiRequestById()✓ shouldGetReiRequestForGroupManager()✓ shouldGetReiRequestForNormalUser()✓ shouldUpdateReiRequest()▼ ✓ ReiRequestServiceTest<ul style="list-style-type: none">✓ addReiRequestTest()▼ ✓ UserInfoServiceImpITest<ul style="list-style-type: none">✓ testAddRole()✓ testGetUserInfoWithOnlyId()✓ testAdd()✓ testGetAllRoles()✓ testUpdateRole()✓ testDeleteRole()✓ testGetRoleById()✓ testGetUserInfo()✓ testGetUsersByWhere()✓ testDelete()✓ testUpdate()✓ testUserIsExisted()
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93% classes, 67% lines covered in package 'com.iceberg'		
Element	Class, %	Method, %
📁 configs	100% (4/4)	100% (10/10)
📁 controller	100% (3/3)	85% (24/28)
📁 dao	100% (0/0)	100% (0/0)
📁 entity	71% (5/7)	83% (73/87)
📁 externalapi	100% (2/2)	100% (10/10)
📁 service	100% (3/3)	70% (14/20)
📁 utils	100% (10/10)	78% (43/55)
🌐 IcebergApplication	100% (1/1)	0% (0/2)

Part 4:

CheckStyle Results

Generated by Checkstyle 8.29 with `google_checks.xml`

Checkstyle Results

The following document contains the results of [Checkstyle](#) 8.29 with `google_checks.xml` ruleset. 

Summary

Files	 Info	 Warnings	 Errors
35	0	0	0

Files

File	 I	 W	 E
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SpotBugs Report

Summary

Classes	Bugs	Errors	Missing Classes
37	10	0	0

Files

Class	Bugs
com.iceberg.controller.OAuthController	1
com.iceberg.controller.UserInfoController	1
com.iceberg.entity.ReimbursementRequest	2
com.iceberg.entity.ReimbursementRequest\$Status	1
com.iceberg.service.impl.ReiRequestServiceImpl	2
com.iceberg.service.impl.UserInfoServiceImpl	1
com.iceberg.utils.PageModel	2

[com.iceberg.controller.OAuthController](#)

Bug	Category	Details
Store of non serializable com.iceberg.entity.UserInfo into HttpSession in com.iceberg.controller.OAuthController.setSessionUserInfo(UserInfo, HttpSession)	BAD_PRACTICE	J2EE_STORE_OF_NC

[com.iceberg.controller.UserInfoController](#)

Bug	Category	Details
Store of non serializable com.iceberg.entity.UserInfo into HttpSession in com.iceberg.controller.UserInfoController.setSessionUserInfo(UserInfo, HttpSession)	BAD_PRACTICE	J2EE_STORE_OF_
