

Term Project (50 points)

Lecturer: Amonrat Prasitsupparote

Prince of Songkla University

Instruction:

- This project is a co-project with a Database class, but the grading is separate.
- This work is a group of at most **2 persons** per group for creating a web application.
- Each group must choose the topic from the following list on page 3, there are **14 topics** available in total. **NOT allow choosing duplicate.**
- In case of a duplicate topic, allow only one group to get the point.
- For more details on your chosen topic, make an appointment with me or Teacher Panisa in advance 2-3 days.
- This project has been divided into two phases below.

1) Phase I (Progress Presentation) 20 points

In this phase, you should present your frontend application. **Each member must present your responsible module/task by yourself**, otherwise, you will not get any points.

1.1) The rubric for getting the point is the following:

Point	Level	Description
5	A-E	UX/UI of your frontend application
	A	<ul style="list-style-type: none"> • There is a UX/UI of your frontend application that meets all of the descriptions in your selected project (100%).
	B	<ul style="list-style-type: none"> • There is a UX/UI of your frontend application that meets most of the descriptions in your selected project (75%).
	C	<ul style="list-style-type: none"> • There is a UX/UI of your frontend application that meets half of the descriptions in your selected project (50%).
	D	<ul style="list-style-type: none"> • There is a UX/UI of your frontend application that meets some of the descriptions in your selected project (25%).
	E	<ul style="list-style-type: none"> • There is a UX/UI of your frontend application that meets none of the descriptions in your selected project (0%).

10	A-E	The Modules of your frontend application (Each member must present your responsible module by yourself)
	A	• All modules of your application meet all of the descriptions in your selected project (100%).
	B	• Most modules of your application meet all of the descriptions in your selected project (75%).
	C	• Half modules of your application meet all of the descriptions in your selected project (50%).
	D	• Some modules of your application meet all of the descriptions in your selected project (25%).
	E	• None modules of your application meet all of the descriptions in your selected project (0%).
5	A-E	Presentation and Understanding (ready for presentation, equipment, sample data and files, understanding of project, techniques and tools used)
	A	• Excellent
	B	• Good
	C	• Satisfactory
	D	• Below expectation
	E	• Not show

1.2) Two extra points for deploying to the server and can access via the internet.

1.3) Date to presentation

Monday, September 26, 2022, 10:30 AM – 12:30 PM

Friday, September 30, 2022, 10:30 AM – 12:30 PM

2) Phase II (Final Presentation) 30 points

In this phase, you should present your final project including frontend and backend applications. **Each member must present your responsible module/task by yourself**, otherwise, you will not get any points.

2.1) The rubric for getting the point is the following:

Point	Level	Description
15	A-E	The Modules of your backend application (Each member must present your responsible module by yourself)
	A	• All modules of your application meet all of the descriptions in your selected project (100%).
	B	• Most modules of your application meet all of the descriptions in your selected project (75%).
	C	• Half modules of your application meet all of the descriptions in your selected project (50%).
	D	• Some modules of your application meet all of the descriptions in your selected project (25%).
	E	• None modules of your application meet all of the descriptions in your selected project (0%).
10	A-E	The completion of your application (frontend and backend applications work well together, NO error, manipulate a database, publish on a public server)
	A	• Excellent
	B	• Good
	C	• Satisfactory
	D	• Below expectation
	E	• Not show
5	A-E	Presentation and Understanding (ready for presentation, equipment, sample data and files, understanding of project, techniques and tools used)
	A	• Excellent
	B	• Good
	C	• Satisfactory
	D	• Below expectation
	E	• Not show

2.2) Extra points.

- One point for your presentation is a production version of SPA or PWA, etc.
- Two points for deploying to the server and can access via the internet.

2.3) Date to presentation

Monday, November 21, 2021, 10:30 AM - 12:30 PM

Tuesday

Wednesday, November 23, 2021, 10:30 AM - 12:30 PM

Friday

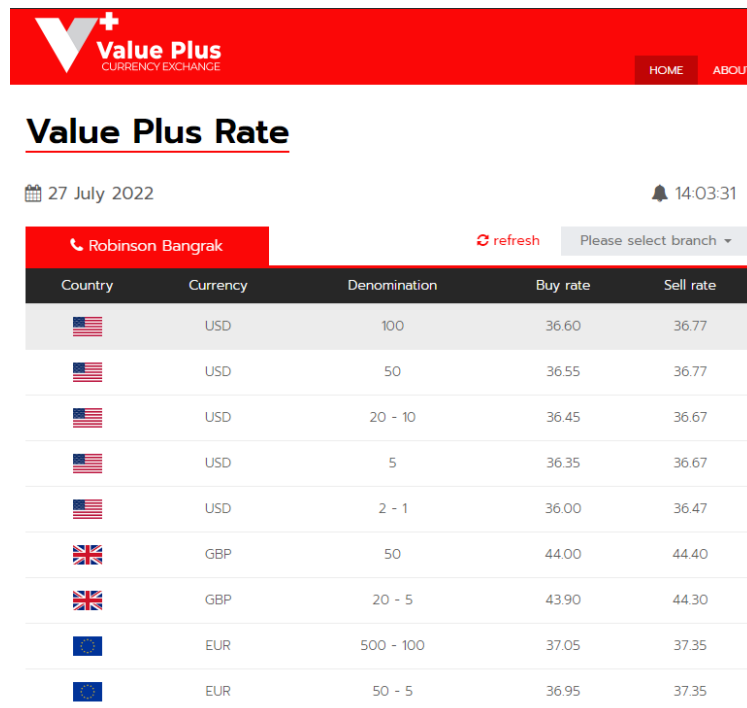
Topic 1. Currency Exchange Shop

1. Admin

- 1.1 Dashboard:** this section summarizes the amount of buying and selling in total and today, the amount of pending and rejected transactions.
- 1.2 Currency, Currency Rate, Denomination:** admin can manage the currency rate (add/update/delete) including setting the specific currency to visible or invisible, see an example in Figure 1.
- 1.3 Transaction Management:** there are three statuses (pending, completed, and rejected). Admin can modify the status to completed or rejected only.

2. User

- 2.1 Buy or Sell:** make a transaction to buy or sell the currency. This transaction will be set to a pending transaction at first.
 - Sell rate for THB => others
 - Buy rate for others => THB
- 2.2 Registered User:** see the history of transactions.



Value Plus Rate				
27 July 2022 14:03:31				
Robinson Bangrak refresh Please select branch				
Country	Currency	Denomination	Buy rate	Sell rate
	USD	100	36.60	36.77
	USD	50	36.55	36.77
	USD	20 - 10	36.45	36.67
	USD	5	36.35	36.67
	USD	2 - 1	36.00	36.47
	GBP	50	44.00	44.40
	GBP	20 - 5	43.90	44.30
	EUR	500 - 100	37.05	37.35
	EUR	50 - 5	36.95	37.35

Figure 1. An example of the currency rate & denomination

Topic 2. Top-up Online Game

1. Admin

- 1.1 **Dashboard:** this section summarizes the amount of top-up in total and today, the amount of pending and rejected transactions.
- 1.2 **Games, Payment methods, Packages:** admin can manage the games, payment methods, and packages in this system (add/update/delete) including setting the status to visible or invisible, see an example in Figure 2.
- 1.3 **Transaction Management:** there are three statuses (pending, completed, and rejected). Admin can modify the status to completed or rejected only.

2. User

- 2.1 **Top up:** user must do the following steps:
 - Choose the available game
 - Fill the UID
 - Choose the package
- 2.2 **Cart:** user can manage (add/update/delete) the top up packages in the cart.
- 2.3 **Payment:** user confirms all packages in the cart, then chooses the payment method. The transaction will be created and the status is pending.
- 2.4 **Registered User:** see the history of transactions.

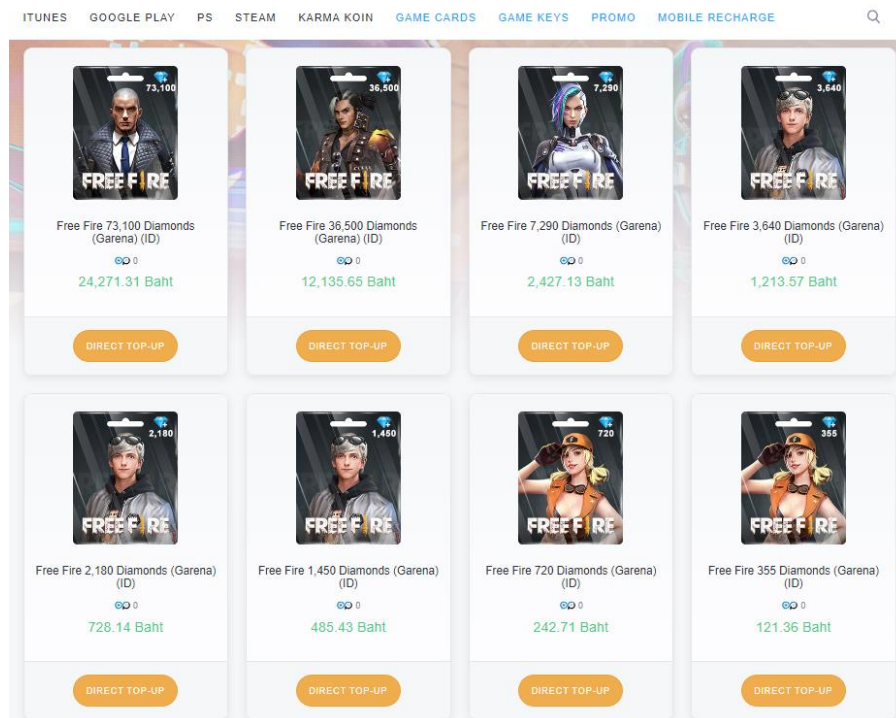


Figure 2. An example of the packages

Topic 3. Drinking Ordering System

1. Admin

- 1.1 **Dashboard:** this section summarizes the number of orders in total and today, the amount of pending and rejected transactions.
- 1.2 **Category, Size, Topping, Sugar level, Ice level:** admin can manage the category, size, topping, sugar level, and ice level (add/update/delete), see an example in Figure 3.
- 1.3 **Drinking menu:** admin can manage the drinking menu in this system (add/update/delete) including setting the status to visible or invisible, see an example in Figure 3.
- 1.4 **Transaction Management:** there are three statuses (pending, completed, and rejected). Admin can modify the status to completed or rejected only.

2. User

- 2.1 **Order:** user chooses the available drinking menu and does the following steps:
 - Choose the size
 - Choose the topping, allow choosing more than one.
 - Choose the sugar level
 - No sugar (0%)
 - Quarter sugar (25%)
 - Half sugar (50%)
 - Less sugar (75%)
 - Full sugar (100%)
 - More sugar (120%)
 - Choose the ice level
 - Hot drink
 - No ice
 - Less ice
 - Normal ice
- 2.2 **Cart:** user can manage (add/update/delete) the order in the cart.
- 2.3 **Payment:** user confirms all orders in the cart, then chooses the payment method. The transaction will be created and the status is pending.
- 2.4 **Registered User:** see the history of transactions.



Figure 3. An example of the drinking menu

Topic 4. Car Parking System

1. Admin

- 1.1 **Dashboard:** this section summarizes the amount of parking fee in total and today, the amount of pending and rejected transactions.
- 1.2 **Parking fees, Payment methods:** admin can manage the parking fees, payment methods in this system (add/update/delete) including setting the status to visible or invisible, see an example in Figure 4.
- 1.3 **Transaction Management:** there are three statuses (pending, completed, and rejected). Admin can modify the status to completed or rejected only.

2. User

- 2.1 **Parking:** user fills the enter and out DateTime then the fee will be summarized.
- 2.2 **Payment:** user chooses the payment method. The transaction will be created and the status is pending.
- 2.3 **Registered User:** see the history of transactions.



Figure 4. An example of the parking fee

Topic 5. Fixed-rate Loan System

1. Admin

- 1.1 Dashboard:** this section summarizes the amount of loan in total and today, the amount of pending and rejected transactions.
- 1.2 Loan tenure, Yearly interest rate:** admin can manage the loan tenure, yearly interest rate in this system (add/update/delete) including setting the status to visible or invisible, see an example in Figure 5.
- 1.3 Transaction Management:** there are three statuses (pending, completed, and rejected). Admin can modify the status to completed or rejected only.

2. User

- 2.1 Loan Simulation:** user fills loan amount, chooses loan tenure (in years or months), chooses the yearly interest rate, then the payment in each installment will be summarized, see an example in Figure 5.
 - $\text{Total Interest Paid} = \text{Loan Amount} * \text{Loan Tenure (in years)} * \text{Yearly Interest Rate}$
 - $\text{Monthly Payments} = (\text{Loan Amount} + \text{Total Interest Paid}) / \text{Loan Tenure (in months)}$
- 2.2 Get a loan:** Only the registered user can get a loan through the button (Get a Loan) in the simulation. The transaction will be created and the status is pending.
- 2.3 Registered User:** see the history of loan transactions.

Loan Amount = 100,000.00		Total Interest Paid = 8,040.00		Total Payments = 108,040.00	
No. of Instalment	Principal Payment	Interest Payment	Total Payment	Outstanding Balance	
1	2,777.78	223.33	3,001.11	105,038.89	
2	2,777.78	223.33	3,001.11	102,037.78	
3	2,777.78	223.33	3,001.11	99,036.67	
4	2,777.78	223.33	3,001.11	96,035.56	
5	2,777.78	223.33	3,001.11	93,034.44	
6	2,777.78	223.33	3,001.11	90,033.33	
7	2,777.78	223.33	3,001.11	87,032.22	
8	2,777.78	223.33	3,001.11	84,031.11	
9	2,777.78	223.33	3,001.11	81,030.00	
10	2,777.78	223.33	3,001.11	78,028.89	
11	2,777.78	223.33	3,001.11	75,027.78	
12	2,777.78	223.33	3,001.11	72,026.67	
13	2,777.78	223.33	3,001.11	69,025.56	
14	2,777.78	223.33	3,001.11	66,024.44	
15	2,777.78	223.33	3,001.11	63,023.33	
16	2,777.78	223.33	3,001.11	60,022.22	
17	2,777.78	223.33	3,001.11	57,021.11	
18	2,777.78	223.33	3,001.11	54,020.00	
19	2,777.78	223.33	3,001.11	51,018.89	
20	2,777.78	223.33	3,001.11	48,017.78	
21	2,777.78	223.33	3,001.11	45,016.67	
22	2,777.78	223.33	3,001.11	42,015.56	

Figure 5. An example of the loan simulation with a loan tenure of 3 years and a yearly interest rate is 2.68

Topic 6. OT Request System

1. Admin

1.1 Dashboard: this section summarizes the amount of approved OT requests in total and today, the amount of pending and rejected requests.

1.2 Employee information: admin can manage the employee information (add/update/delete), including salary, and working hours.

1.3 OT rate: admin can manage the OT rate in this system (add/update/delete) including setting the status to visible or invisible. See an example in the below table.

- Hourly wage = salary / 30 / working hour

The number of OT hours in total (defined as X)	OT rate
$X \geq 10$ hours	1.3 times of hourly wage
5 hours $\leq X < 10$ hours	1.8 times of hourly wage
$X < 5$ hours	2.0 times of hourly wage

1.4 Request Management: there are three statuses (pending, approved, and rejected). Admin can modify the status to completed or rejected only.

2. Employee

2.1 OT request: employee fills the enter and out DateTime in each day that requests OT. Each request will be created and the status is pending.

2.2 Checking status: employee can check the status of his/her request. For the approved request, there is a summary of OT in total.

Topic 7. Laundry Management System

1. Admin

- 1.1 Dashboard:** this section summarizes the number of laundry requests in total and today, and the amount of pending, accepted, in-process, and finished requests, see an example in Figure 7-1.
- 1.2 Manage Laundry Price, Service Types, Payment methods:** admin can manage the laundry price, the service types, and the payment methods in this system (add/update/delete) including setting the status to visible or invisible, see an example in Figure 7-2.
- Service Types such as Pickup, Wash and Dry, Dry Cleaning, Fluff, and Fold Laundry, etc.
- 1.3 Manage Laundry Request:** admin can update the request status from pending to others (accepted, in-process, and finished).

2. User

- 2.1 Laundry request:** user fills in the laundry detail form, see an example in Figure 7-3. After submitting the form, the laundry detail will be summarized including the total charges.
- 2.2 Payment:** user chooses the payment method. The request will be created and the status is pending.
- 2.3 Registered User:** the registered user can check the request status.

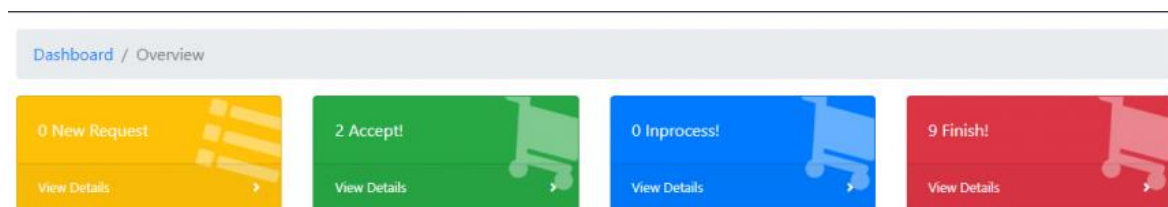


Figure 7-1. An example of an admin dashboard

Laundry Price(Per Unit)	
Top Wear Laundry Price	12
Bottom Wear Laundry Price	22
Woolen Cloth Laundry Price	20

Figure 7-2. An example of a laundry price

Pick up / Drop Date mm/dd/yyyy	Topwear(Tshirt,Top,Shirt)
Bottomwear(Lower,Jeans,Leggins)	
Woolen Cloth	
Others	
Select Service type	
Contact Person	
Description(if any)	
Submit	

Figure 7-3. An example of a laundry request form

Topic 8. Laptop Rental System

1. Admin

- 1.1 **Dashboard:** this section summarizes the number of rental requests in total and today, and the amount of pending, approved, and rejected requests, see an example in Figure 8.
- 1.2 **Manage Rental Price, Laptop, Payment methods:** admin can manage the rental price (per day, month, year), the laptop detail, and the payment methods in this system (add/update/delete) including setting the status to visible or invisible.
- 1.3 **Manage Rental Request:** admin can update the request status from pending to approved or rejected.

2. User

- 2.1 **Rental request:** user chooses the desired laptop and fills in the rental detail. After submitting the form, the rental detail will be summarized including the total charges.
- 2.2 **Payment:** user chooses the payment method. The request will be created and the status is pending.
- 2.3 **Registered User:** the registered user can check the rental status.



Figure 8. An example of an admin dashboard

Topic 9. Car Wash Service System

1. Admin

- 1.1 Dashboard:** this section summarizes the number of car wash requests in total and today, and the amount of pending, in-process, and finished requests.
- 1.2 Manage Services, Additional Services, Payment methods:** admin can manage the services, the additional services, and the payment methods in this system (add/update/delete) including setting the status to visible or invisible, see an example in Figure 9.
- Additional Services such as Hard Wax, Scratch Removal, Carpet Shampooing, Water Spot Removal, Paint Restoration, etc.
- 1.3 Manage Car Wash Request:** admin can update the request status from pending to in-process or finished.

2. User

- 2.1 Car Wash request:** user fills in the car wash detail form. After submitting the form, the car wash detail will be summarized including the total charges.
- 2.2 Payment:** user chooses the payment method. The request will be created and the status is pending.
- 2.3 Registered User:** the registered user can check the request status.



VEHICLE	OUTSIDE ONLY	INSIDE & OUT
CAR	\$12	\$20
SUV (AVERAGE)	\$15	\$25
SUV (LARGE)	\$20	\$30
PICKUP TRUCK (SMALL)	\$15	\$25
PICKUP TRUCK (LARGE)	\$20	\$30
PICKUP TRUCK (XL)	\$25	\$35
TAXI VAN	\$20	\$30

Figure 9. An example of a service price.

Topic 10. Daily Expense Tracker System

1. Admin

- 1.1 Category and Sub-Category:** admin can manage the category and sub-category in this system (add/update/delete) including setting the status to visible or invisible, see an example in Figure 10-1.
- 1.2 Manage Users:** admin can modify the status of each user to active or inactive. An inactive user can not use the system.

2. User

- 2.1 Expenses:** only the registered user fills in the expense form. This form accepts more than one expense detail in a form. There is a total expense at the end of this form.
- 2.2 Dashboard:** user can view the amount of expense in total, today, yesterday, last 7 days, last 30 days, and specify the period see an example in Figure 10-2.
- 2.3 Register:** user fills in the register form, then his/her account was created with active status.

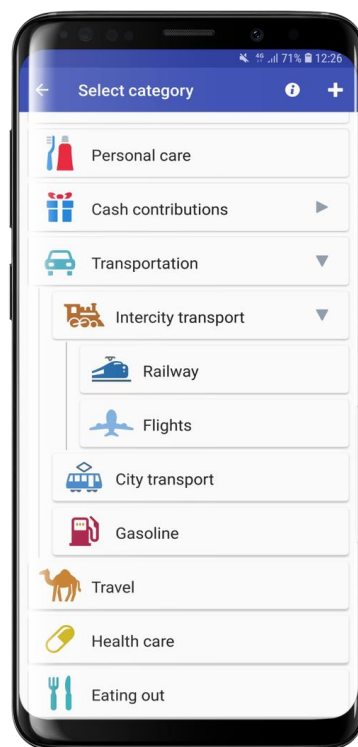


Figure 10-1. An example of a category and sub-category.

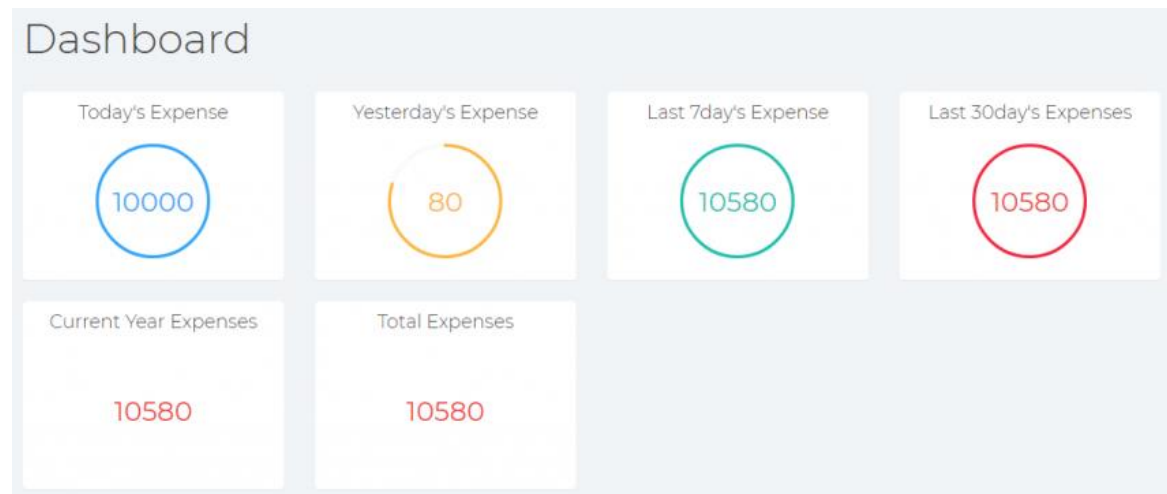


Figure 10-2. An example of a dashboard.

Topic 11. Electronic Device Repair System

1. Admin

- 1.1 **Dashboard:** this section summarizes the number of requests in total and today, and the amount of pending, in-process, and finished requests.
- 1.2 **Technicians, Device Brand, Device Types:** admin can manage the technicians, the device brand, and the device types in this system (add/update/delete) including setting the status to visible or invisible.
 - Device Types such as television, microwave, rice cooker, clothes iron, refrigerator, washing machine, vacuum cleaner, etc.
- 1.3 **Manage Requests:** admin assigns a technician to the pending request. This request will change to an in-process request.

2. User

- 2.1 **Repair request:** user fills in the request form. After submitting the form, the request will be created and the status is pending.
- 2.2 **Registered User:** the registered user can check the request status.

3. Technicians

- 3.1 **Dashboard:** this section summarizes the number of in-process and finished requests in total and today.
- 3.2 **Manage Requests:** technician fills in the charges, then this request will be changed to finished status.

Topic 12. Swensen's Ordering System

1. Admin

- 1.1 Dashboard:** this section summarizes the number of orders in total and today, the amount of pending and rejected transactions.
- 1.2 Category, Toppings, Scoops:** admin can manage the category, toppings, and scoops (add/update/delete), see an example in Figure 12.
 - Category such as signature sundaes, chocolate fantasy, beautiful sundaes, etc.
- 1.3 Ice-cream menu:** admin can manage the ice-cream menu in this system (add/update/delete) including setting the status to visible or invisible, see an example in Figure 12. Each menu has the default flavor of ice-cream and toppings. For example, Coffee Mocha Almond consists of:
 - Mocha Almond Fudge 1 scoop
 - Turkish Coffee 1 scoop
 - Vanilla 1 scoop
 - Toppings: Caramel, Fan Wafer, Cherry Dipped, Almonds, Chocolate Fudge, and Whipped Cream.
- 1.4 Transaction Management:** there are three statuses (pending, completed, and rejected). Admin can modify the status to completed or rejected only.

2. User

- 2.1 Order:** user chooses the available ice-cream menu and does the following steps:
 - Change the flavor of ice-cream
 - Change the toppings
 - Addon the toppings
- 2.2 Cart:** user can manage (add/update/delete) the order in the cart.
- 2.3 Payment:** user confirms all orders in the cart, then chooses the payment method. The transaction will be created and the status is pending.
- 2.4 Registered User:** see the history of transactions.

SIGNATURE SUNDAES

สตรอเบอรี่
Strawberry,
Banana & Cream
草莓、香蕉及奶油
155.-

คอกออบ
Cott Tower
科伊特塔
155.-

พุดราตัมบูกา
The EarthQuake
地震
375.-

นัตตี้ กริสปี ทาวเวอร์
Nuffy Crispy Tower
坚果脆塔
155.-

ซมทรีฟฟ์ โบนันซ่า
Hot Fudge Bonanza Split
高热巧克力圣代
155.-

ก๊อดรช
Gold Rush
淘金热
135.-

บานาน่า สปลิต
Banana Split
香蕉圣代
185.-

รูปภาพนี้เป็นเพียงตัวอย่างเท่านั้น
ไม่สงวนลิขสิทธิ์

Chocolate Fantasy

ฟรอสต์ ช็อกมอลท์ แฟนตาซี
Frosted Choc Malt Fantasy
巧克力麦芽奇幻
149.-

คิทแคท แฟนตาซี
Kit Kat Fantasy
奇巧幻想
165.-

ช็อกโกแลต ครันช์
Chocolate Crunch
朱古力杯
149.-

โอรีโอ คูกี้ แอนด์ ครีม
Oreo Cookies'n Cream
奥利奥奶油饼干
155.-

สติคกี้ ชูว์ ช็อกแฟนตาซี
Sticky Chewy Choc Fantasy
浓厚巧克力奇幻
149.-

Beautiful Sundaes



สตอเบอรี่
ซูเปอร์ ซันเด
Strawberry
Super Sundae
超级草莓圣代
109.-

ช็อกโกแลต
ซูเปอร์ ซันเด
Chocolate
Super Sundae
超级巧克力圣代
109.-



สวีท แอนด์ โกลด์
Sweet 'n Gold
甜美黄金
115.-

บานาน่า โบท
Banana Boat
香蕉船
119.-



ฮ็อทฟิดจ์ โบนัส
Hot Fudge Bonus
热巧克力红利
89.-



โกลเดน ซันเด
Golden Sundae
黄金圣代
85.-

ซูว์ ช็อกกี้ แฟนซี
Chewy
Chocky Fancy
浓厚顶巧克力奇幻
85.-



สตอเบอรี่ แฟนซี
Strawberry Fancy
草莓新地
85.-



อเมริกัน ทาวเวอร์
American Tower
美国塔
89.-

Bake Shoppe Sundaes

วอล์ค-อเวย์ ซันเด
Walk-Away Sundae
游离圣代 120.-

คริสป์ ค็อกเทล
Crispy Cocktail
脆鸡尾酒 165.-

โอรีโอ บราวน์ส
Oreo Brownies
奥利奥 果仁巧克力蛋糕 165.-

นัตตี้ บานาน่า
Nutty Banana
坚果香蕉 165.-

เซเลบริตี้ บราวน์
Celebrity Brownie
名流布朗尼 145.-

บานาน่า คาราเมล เครป
Banana Caramel Crepe
香蕉焦糖薄煎饼 159.-

วaffle ซันเด
Waffle Sundae
华夫饼圣代 149.-

ช็อกโกแลต ลาวา
Chocolate Lava
熔岩巧克力 185.-

ทุกเมนูมีไอศกรีมรสวานิลลา
All pictures are for advertising purposes only.

NEW Bingso Ice Cream

ไอศกรีม บิงซู



NEW Bingso Sundae



Mega Sundaes

ท็อปเลส โฟว
Topless 5
无冠 5
225.-

เดอะ เฮอริเคน
The Hurricane
飓风
289.-

ฟองดู ฟอส ๗
Fondue For 2
双人巧克力锅
249.-

ช็อกโกแลต ฟองดู
Chocolate Fondue
巧克力锅
375.-

รูปภาพนี้เป็นเพียงตัวอย่าง
All pictures are for advertising purposes only.

Cable Parfait

คอฟฟี่ นีอก้า
อัลมอนด์
Coffee Mocha
Almond
咖啡摩卡杏仁
149.-

สตรอเบอร์รี่ วัลเลย์
Strawberry
Stripes
草莓花式
149.-



ช็อกโกแลต
ริง-อะ-ดิง
Chocolate
Ring-A-Ding
巧克力环丁
149.-

บลูเบอร์รี่
สามสตาบับ
Red, White
& Blueberry
红白 & 蓝莓
149.-

Melting Chocolate Dome

ช็อกโกแลต โดม
Chocolate Dome
巧克力圆顶
129.-

ภาพประกอบ
ภายในด้วยสแตนเลส

มินิช็อกโกแลตโดม
ไอศกรีมรส คาร์ก
ช็อกโกแลต กรัฟเฟิล
กล้วยหอม
ช็อกโกแลตพิสท์
ไอริช
ช็อกโกแลตชิพ
ไอศกรีมรส
ทุกที่ แอนด์ กรีน

รีปปีกริม

มิกซ์ เบอร์รี่ ช็อกโกแลต โดม
Mixed Berry Chocolate Dome
综合浆果巧克力圆顶
129.-

ภาพประกอบ
ภายในด้วยสแตนเลส

มินิช็อกโกแลตโดม
ไอศกรีมรสสตรอเบอร์รี่
ช็อกโกแลต ชิงก์
กล้วยหอม
บลูเบอร์รี่
คอร์นเฟลก
ไอศกรีมรส
เชอร์รี่ สตรอเบอร์รี่
รีปปีกริม

นัตตี้ มานีเย ช็อกโกแลต โดม
Nutty Mania Chocolate Dome
劲爆坚果巧克力圆顶
129.-

ภาพประกอบ
ภายในด้วยสแตนเลส

มินิช็อกโกแลตโดม
ไอศกรีมรส
แบกคาเดเนีย
กล้วยหอม
ถั่วคัสชิว
อัลมอนด์
ไอศกรีมรส
วานิลลา
รีปปีกริม



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KIDS SUNDAES

มิสเตอร์ ซาน เบบี้
Mr. San's Babies
圣诞小孩先生
85.-

มิสเตอร์ ซานฟรานซิสโก
Mr. San Francisco
旧金山先生
85.-

สวีท 프린เซส
Sweet Princess
甜心公主
85.-

ลิตเติล 프린ซ์
Little Prince
小王子
85.-

HAPPY BIRTHDAY

ไฟร์เฮาส์
แอมป์ เวิร์กเดย์
Firehouse
Happy Birthday
生日快乐
249.-



Topic 13. Garbage Recycling Online Shop System

1. Admin

1.1 Dashboard: this section summarizes the number of transactions in total and today, the amount of pending, in-progress and rejected transactions.

1.2 Category, Products, Staffs: admin can manage the category, products and staffs (add/update/delete), see an example in Figure 13. Especially, the products can be set the status to visible or invisible.

- Category such as Steel, Paper, Glass, Plastic, etc.

1.3 Transaction Management: there are four statuses (pending, in-progress, completed, and rejected). Admin can modify the status to in-progress or rejected only.

- The in-progress status means the staff was assigned for this transaction by the admin.
- The rejected status means the admin canceled this transaction.

2. Staff

2.1 Transaction Management: Staff can modify the in-progress status to completed status when finishing pick-up the garbage.

3. User

3.1 Request Pick-up Garbage: only non-registered users must fill in the contact information. After that fill in the garbage information such as type (newspaper, zinc can, etc.) and choose the date-time for pick-up the garbage. The transaction will be created and the status is pending.

3.2 Registered User: see the history of transactions.

Price Monday 15 August 2012 (Retail Price)

ประเภทเหล็ก / Steel							
Product Type	Price / Unit	Product Type	Price / Unit	Product Type	Price / Unit	Product Type	Price / Unit
Sliced Steel-not cut	5.70.-	Steel Bar 1 inch,more than 1 m. long	9.50.-	Steel Nail	8.70.-	Thick Steel (cut in short pieces not exceed 80 cm.)	9.50.-
Round Bar	6.00.-	T-BAR,Metal Sheet	4.00.-	No.2 Big Cast Iron	6.80.-	Shock Absorber Steel	4.00.-
Zinc Can	5.00.-	Thick Steel (cut in short pieces not exceed 50 cm.)	8.70.-	Thick Steel - not cut	6.00.-	Steel Bar 6 mm, 2.50 m. long ,end tied	9.20.-
No.3 Big Cast Iron	5.60.-	Sling	7.00.-	Steel from the whole car / pick-up	5.70.-	Sliced Steel (cut in short pieces not exceed 50 cm.)	8.70.-
Zinc	4.00.-	No.4 Engine Steel	6.40.-	Sling	5.00.-	Extra thick steel (cut in short)	9.50.-
Thin Steel - not cut	2.50.-	Metal Swarf (black,fluffy,notdirty)	2.50.-	No.1 Small Cast Iron	9.00.-		

ประเภทกระดาษ / Paper							
Product Type	Price / Unit	Product Type	Price / Unit	Product Type	Price / Unit	Product Type	Price / Unit
Newspaper	3.40.-	Book Paper - Newsprint	3.40.-	Office Paper(A)	7.20.-	Milk / Fruit Juice Box	0.00.-
Mixed Paper	3.40.-	Old Corrugated Cardboard B(OCC)	3.80.-	Office Paper(D)	4.20.-	Office Paper(B)	6.20.-
Old Corrugated Cardboard A(OCC)	4.10.-	Cup sleeve	0.00.-	Magazines / Gloss Coated Paper	3.40.-	Office Paper(C)	5.20.-
Color Paper / Shoe Box	3.40.-	Cement Bag	3.40.-				

ประเภทขวดแก้ว / Glass							
Product Type	Price / Unit	Product Type	Price / Unit	Product Type	Price / Unit	Product Type	Price / Unit
Medicine Bottle-kg (pound bottle) / (small)	2.10.-	Rice whiskey Bottle : Box(24)	15.00.-	Green Broken	1.95.-	BLEND 258 Bottle (700 cc.) : box	7.00.-
LEO Beer 1 bottle	0.30.-	Clear Broken Glass	2.05.-	heineken	19.00.-	Dek Sombhoon Sauce Bottle - 12 bottles / box	0.00.-
Fish Sauce Bottle : 1 Bottle	1.00.-	Chang Beer Bottle (green) / Box / clean	14.00.-	Glass of beer (Broken)	2.15.-	heineken	18.00.-
Dek Sombhoon Sauce Bottle - 24 bottles / box	0.00.-	Fish Sauce Bottle : 1 Box	17.00.-	LEO Beer bottle / Box / clean	10.00.-	Red Broken Glass	2.05.-
Glass-Mixed Colored Broken Glass	1.30.-	Hong Thong Bottle(700 cc.) : box	16.00.-	Chang Beer 1 Bottle (green / clean)	0.50.-		

ประเภทพลาสติก / Plastic							
Product Type	Price / Unit	Product Type	Price / Unit	Product Type	Price / Unit	Product Type	Price / Unit
Hard Water Hose	0.00.-	No.2 PET Bottle (green)	1.00.-	Large PVC Electrical Wire Skin-Black	3.50.-	PE Bag - Large size	1.30.-
Plastic Band-floated	1.50.-	Mixed Plastic	3.00.-	Black plastic	1.00.-	PVC Boots	11.50.-
PP Board (black)	1.00.-	Fertilizer Sack Scrap-dry & clean	1.00.-	Normal Saline Bottle cap removed / with cap	1.00.-	Green Water Hose	1.20.-
No.3 PET Bottle (Screen bottle)	0.50.-	Small PVC Electrical Wire-SkinBlack	2.50.-	HDPE Bag - Large size	1.00.-	Plastic CD	12.00.-
Fish Sauce Bottle Caps	3.00.-	Pepsi,Miranda,Aquaver (bottle)	7.50.-	Plastic headlights,tail lights car.	2.00.-	PVC Pipe (blue)	5.50.-
PP.TD10,20	0.00.-	PS (large piece)	0.50.-	Clear PS Plastic-CD Case	1.00.-	(HDPE White) Drinking Water Plastic Bottle	5.00.-
PVC Electrical Wire Skin-(mixed color)	1.50.-	Big Black Trash Bag (dry)	0.70.-	Plastic DVD	6.00.-	Plastic Acrylic Billboard	4.00.-
Soft Water Hose	4.50.-	No.1 PET Bottle (clear)	6.50.-	PVC Pipe (yellow)	2.00.-	PVC Pipe (grey)	0.50.-
Mountain Dew	2.00.-	Plastic Band (PET green)	1.00.-	EPS Foam	1.50.-	(HDPE White) Drinking Water Tank 20 litre	1.50.-
PVC Slippers	5.50.-	PP Board (color)	2.00.-	PVC Bottle (clear / color)	0.40.-	Normal Saline Bottle cap	3.00.-

Figure 13. An example of the category and products
(see more at <http://www.wongpanit.com/list history price>)

Topic 14. School Bank Saving System

1. Admin

1.1 Deposit Types: admin can manage the deposit types (add/update/delete) including setting the status to visible or invisible. The deposit types consist of name, interest rate, the minimum deposit to open an account, and the pay interest periods), see an example in Figure 14-1.

- Pay interest periods such as every month, every 3 months, every 4 months, every 6 months, and every year.

1.2 Account Management: there are three operations that the admin can do in the following:

- Create an account: admin can create a new account for the selected deposit type. Each student has more than one account, see an example in Figure 14-2.
- Close an account: admin can remove the account for the selected deposit type.
- View an account: admin can view the account for the selected deposit type.

2. Students

2.1 Deposit: Students must choose the account first and then fill in the deposit form.

2.2 Withdraw: Students must choose the account first and then fill in the withdraw form.

2.3 History Transactions: Students can see all history transactions of the selected account, see an example in Figure 14-3.

The screenshot displays the 'Deposit Types' management interface. At the top, there is a green button labeled '+ เพิ่มข้อมูล' (Add Data). Below it is a table with columns: ลำดับที่ (Order), ชื่อ (Name), อัตราดอกเบี้ย (Interest Rate), เปิดบัญชีขั้นต่ำ (Minimum Opening Amount), สถานะ (Status), and เลือก (Select). The table contains two rows of deposit types. Below the table is a blue header for the 'ข้อมูลเงินฝาก' (Deposit Information) form. The form includes a dropdown for 'ประเภทเงินฝาก' (Deposit Type) set to '001 - ออมทรัพย์' (Savings), input fields for 'อัตราดอกเบี้ย' (Interest Rate) at 0.00%, 'เปิดบัญชีขั้นต่ำ' (Minimum Opening Amount) at 10 บาท, 'วันที่มีผล' (Effective Date) at 17/04/2561, and 'ดอกเบี้ยธนาคาร' (Bank Interest Rate) at 0.40%. It also features radio buttons for 'รูปแบบการคำนวณ' (Calculation Method) set to 'คิดสตางค์' (Calculate in Baht) and checkboxes for 'เงื่อนไขจ่ายดอกเบี้ย' (Interest Payment Conditions) set to 'มีนาคม' (March) and 'กันยายน' (September). The 'สถานะ' (Status) is set to 'ปกติ' (Normal).

ลำดับที่	ชื่อ	อัตราดอกเบี้ย	เปิดบัญชีขั้นต่ำ	สถานะ	เลือก
1	ออมทรัพย์ออมสร้าง	0.40	10	ปกติ	<input checked="" type="checkbox"/> แก้ไขข้อมูล <input type="checkbox"/> ลบข้อมูล <input type="checkbox"/> ปิดข้อมูล
2	รักชาติรักไทย	0.40	10	ปกติ	<input checked="" type="checkbox"/> แก้ไขข้อมูล <input type="checkbox"/> ลบข้อมูล <input type="checkbox"/> ปิดข้อมูล

ข้อมูลเงินฝาก

ประเภทเงินฝาก: 001 - ออมทรัพย์

อัตราดอกเบี้ย: 0.00 %

เปิดบัญชีขั้นต่ำ: 10 บาท

วันที่มีผล: 17/04/2561

ดอกเบี้ยธนาคาร: 0.40 %

รูปแบบการคำนวณ: ☒ คิดสตางค์ (ระบบจะคำนวณดอกเบี้ยใช้รูปแบบสตางค์ 0.00 0.25 0.50 และ 0.75)

เงื่อนไขจ่ายดอกเบี้ย: ☒ มีนาคม ☒ กันยายน

สถานะ: ☒ ปกติ ☐ ยกเลิก

Figure 14-1. An example of Deposit Types.

เปิดบัญชี

รหัสสมาชิก 000001

ชื่อ - สกุล เด็กหญิงก้องไก่ สวัสดิ์ดี

รหัสนักเรียน 1

เบอร์โทรศัพท์ (05) 4555-5555

ข้อมูลบัญชีเงินฝากสมาชิก

ลำดับ	เลขที่บัญชี	ชื่อบัญชี	ประเภทบัญชี	จำนวนเงินคงเหลือ	วันที่ทำรายการล่าสุด	สถานะ
1	6000001	เด็กหญิงก้องไก่	ออมทรัพย์	0.00	10/11/2560	ปิดบัญชี
2	6000007	เด็กหญิงก้องไก่	ออมทรัพย์	400.00	24/11/2560	ปกติ

Figure 14-2. An example of the account for each student.

เลขที่บัญชี : 5900001

ชื่อบัญชี : พรอนันต์ สุขประเสริฐชัย

บรรทัดเริ่มต้นที่ต้องการพิมพ์ในสมุดคู่ฝาก

***รายการที่อยู่ลำดับหลังจากรายการที่เลือกจะทำการพิมพ์ใหม่ทั้งหมด**

เลือก	ลำดับรายการ	วันที่	เวลา	รายการ	ยอดเงิน	ยอดเงินคงเหลือ
<input type="radio"/>	1	26/12/2559	10:33:28	เปิดบัญชี	1,000.00	1,000.00
<input type="radio"/>	2	31/03/2560	10:45:30	ผลตอบแทน	1.74	1,001.74
<input type="radio"/>	3	22/09/2560	12:08:12	ฝากเงิน	400.00	1,401.74
<input type="radio"/>	4	22/09/2560	12:11:44	ถอนเงิน	400.00	1,001.74
<input type="radio"/>	5	30/09/2560	11:52:36	ผลตอบแทน	3.77	1,005.51
<input type="radio"/>	6	20/11/2560	14:54:35	ผลตอบแทน	0.55	1,006.06
<input type="radio"/>	7	20/11/2560	14:55:06	ปิดบัญชี	1,006.06	0.00

Figure 14-3. An example of the history transactions.