

Management TOYs Store

Snow

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1. PROBLEM DEFINITION

❖ Surveying the Vietnamese toy market: toys are now manufactured to suit all ages from children to adults, many people in urban areas are willing to spend a lot of money to buy toys. So now there are a lot of toy business that are opened nationwide especially in big urban centers. However, they are mostly traditional-style management. So, we will compare the convenience between traditional management style and modern management style:

✧ *Traditional management style*

- ✧ First: all data is recorded in books. So it easy to lose the data and hard to search or copy information.
- ✧ Second, we must storage our books where fixed. Therefore, we can't access data in anywhere we want. Besides that, other people can easily take or read our data and safety is not high.
- ✧ Third, we use manual calculation way. It make us waste of time to calculate data and easily make mistake. In addition, we also hard to calculate the inventory and add products into storage, besides, periodic inventory checks are quite complicated.
- ✧ Finally, form save is handwritten, it's very old-fashion, hard to read and understand for someone.

★ *Modern management style (use computerization)*

- ✧ First: The data is store and linked together on the computer so it help us easy to find, copy information and hard to lose the data.
- ✧ Second, we can store and backup via cloud computing system so we can accessed anywhere via web browser or app support, capable to grant user rights, ensure that provide proper access to each different positions.
- ✧ Third, have many calculation features built into the application. It have the ability to calculate large amounts of data in short time (1-2s), high precision, easily calculate inventory and add products to the warehouse, besides, check inventory periodically quite easily.
- ✧ Finally, form save is typing, it have many different fonts, font sizes, colors that we can easily choose them. This makes our data sheet more diverse and eye-catching, but it also helps us to read and understand better.

2. CRS FUNCTION

➤ **Input**

- Shop + warehouse: name and address of shop and warehouse of shop.
- Product: name of product, brand, size, price, age, material, quantity.
- Brand: name of brand and the nation of the brand.
- Nation: provide nation (origin) for brand of product.

➤ **Output**

- Almost data and information what you entered into program.

➤ **Overview of processes involved:**

- Find, add and replace data of product
- Give information about the shop and warehouse

3. CRS DEVICE

➤ **Hardware requirement (minimal configuration)**

- **CPU:** 500 MHz Intel Pentium III workstation or equivalent.
- **RAM:** 512 Megabytes.
- **HDD:** 125 megabytes of free disk space.

➤ **Hardware requirement (recommended configuration)**

- **CPU:** 780 MHz Intel Pentium III workstation or equivalent.
- **RAM:** 1 Gigabytes.
- **HDD:** 325 megabytes of free disk space.

➤ **Software requirement**

- **Operator System:** Window XP or higher
- **Software:** JRE 1.7 or higher

4. USER REQUIREMENT

- Convenience: can manage their shop in anywhere such as on web or it can use on smartphone.
- Support save on cloud computing, don't lose data.
- Understandable interface, controls.
- Accurate data calculation and quickly.



5. PROJECT DETAILS

✦ Client:

- Name of customer/company: **Vo Hong Khanh**
- Address: Road no. 5, Hung Phu residential area, Cai Rang district, Can Tho city
- Email: khanhvohong@gmail.com
- Phone number: 0772 144 007

✦ About me:

- Name of customer/company: **Group Snow**
- Address: FPT University, Nguyen Van Cu street, An Binh ward, Ninh Kieu district, Can Tho city
- Email: antqce130201@fpt.edu.vn
- Phone number: 0944 354 432

6. ROLES & SCHEDULES

* Roles

No.	Member	Role	Responsibilities
1	TanPNM	Group leader	
2	TanPNM, AnTQ	Analyst	Define problem, input, output, process
3	AnTQ, ThongHM	Designer	Design document
4	TanPNM, AnTQ, ThongMH	Coder	Programming the class and application
5	AnTQ, TanPNM	Tester	Test all function

✧ Schedules

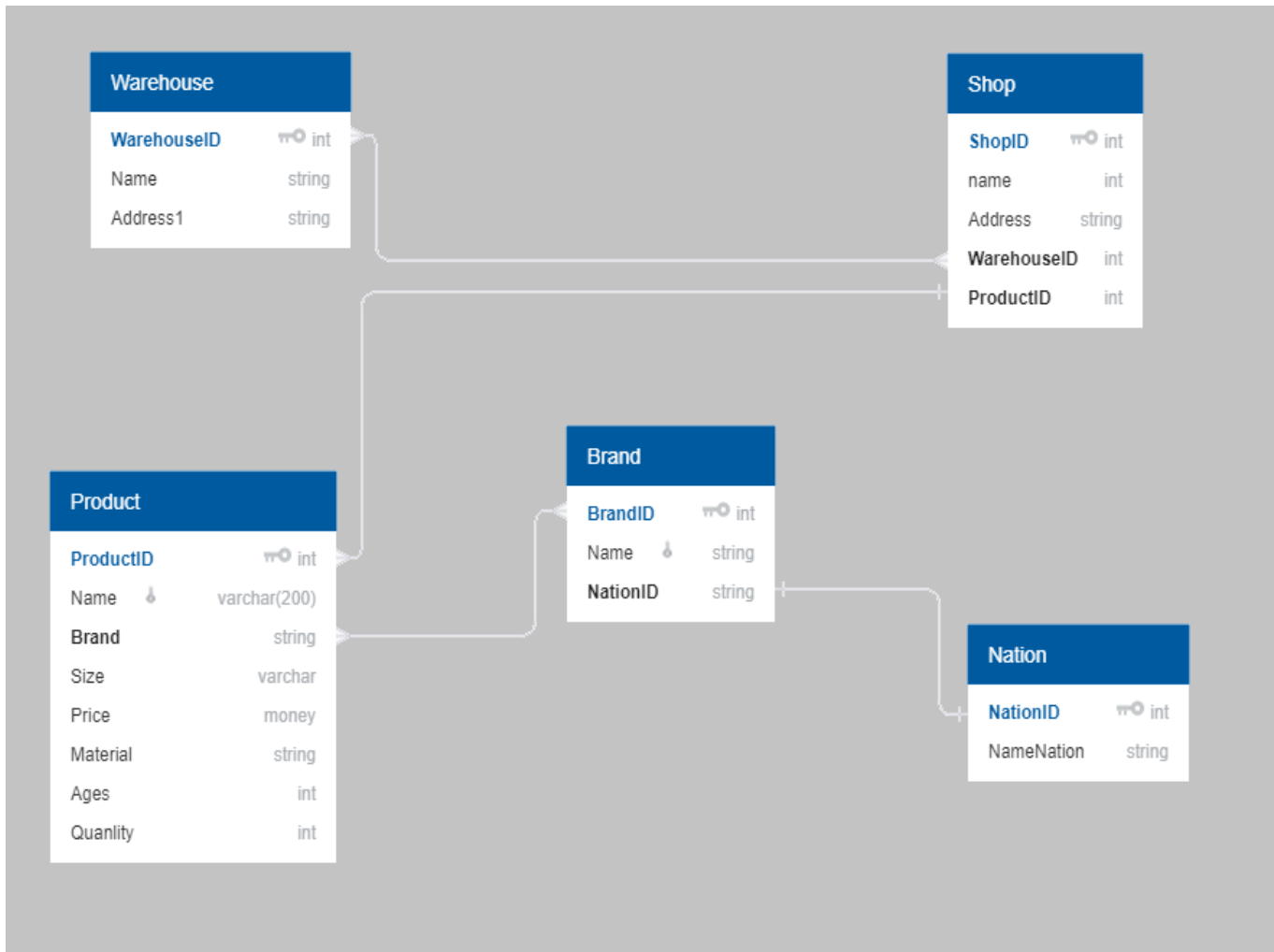
No.	Works	Planned Start Date	Estimated times	Group member names
1	Problem definition & Database Analyst	12/02/2019	03 days	TanPNM, AnTQ
2	Submit document 01	15/02/2019		TanPNM
3	Design outline	02/03/2019	01 days	ThongHM
4	Design document & Complete document	03/03/2019	01 days	AnTQ, ThongHM
5	Class diagrams project	02/03/2019	04 days	TanPNM
6	Submit document + class diagrams	06/03/2019		TanPNM
7	Code assignment	11/03/2019	2 week	TanPNM, AnTQ, ThongHM
8	Complete class application for program.	18/03/2019	2 days	TanPNM, AnTQ, ThongMH



9	Complete document assignment	20/03/2019	4 hours	TanPNM
10	Make demo PowerPoint to presentation	21/03/2018	2 days	TanPNM, AnTQ, ThongMH
11	Complete final PowerPoint	24/03/2019	2 days	TanPNM, AnTQ, ThongMH
12	Presentation assignment	25/03/2019 or 27/03/2019		TanPNM, AnTQ, ThongMH

7. DESIGN

➤ Database Analyst



➤ Structure of data files

We have 5 file data are warehouse.txt, shop.txt, product.txt, brand.txt and nation.txt.

In warehouse.txt file:

- First line is the number of warehouse of shop.
- The order of each line is:
 - + ID of warehouse: type (int)
 - + Name of warehouse: type (String)
 - + Address of warehouse: type (String)

In shop.txt file:

- First line is the number of branch of shop
- The order of each line is:
 - + ID of shop (branch): type (int)
 - + Name of shop (branch): type (String)
 - + Address shop (branch): type (String)

In product.txt file:

- First line is the number of product of shop
- The order of each line is:
 - + ID of product: type (int)
 - + Name of product: type (String)
 - + Brand ID: type (String)

- + Size of product: type (String)
- + Price: type (float)
- +Material: type (String)
- +Appropriate ages: type (int)
- +Quantity: type (int)

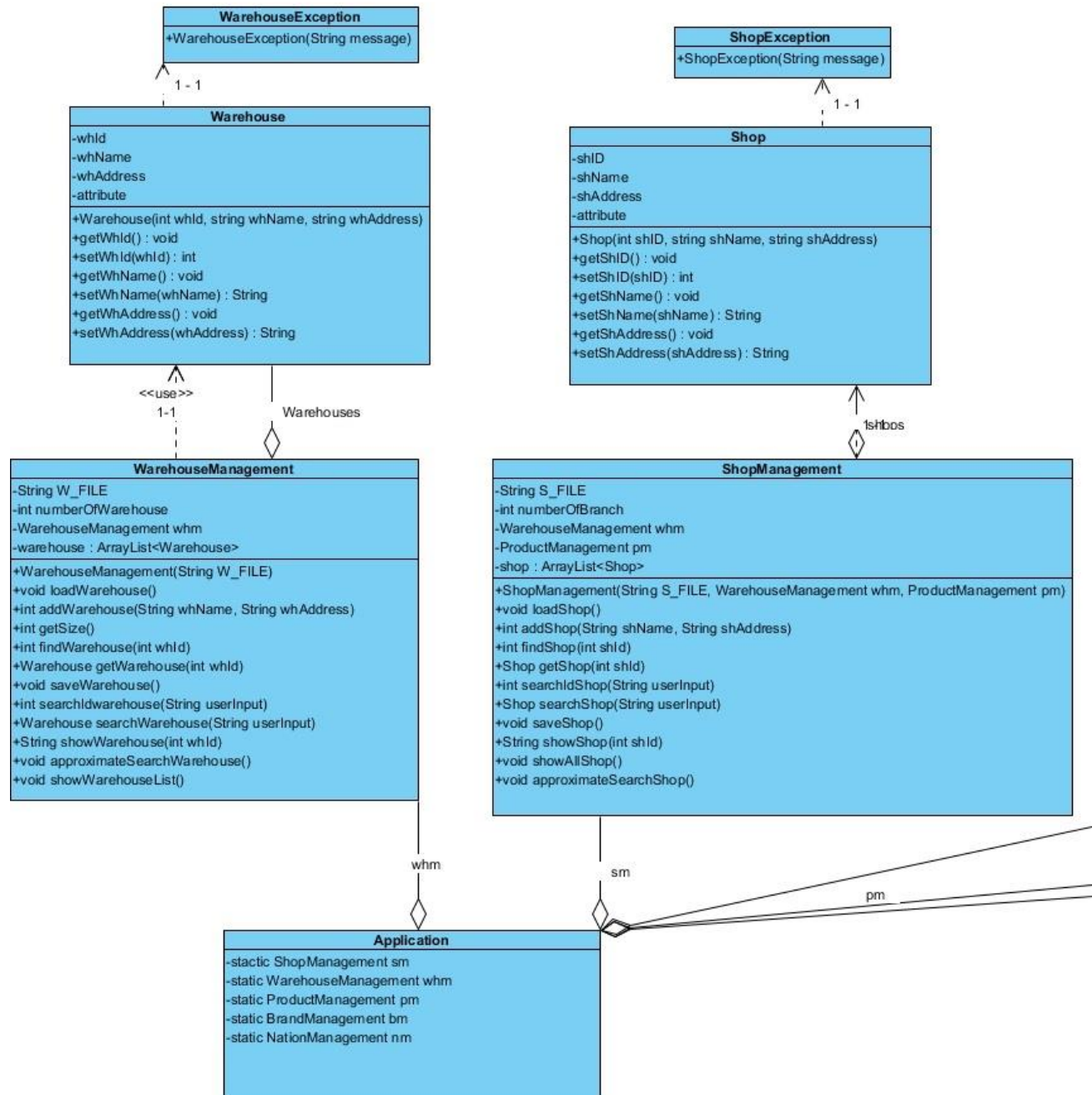
In brand.txt file:

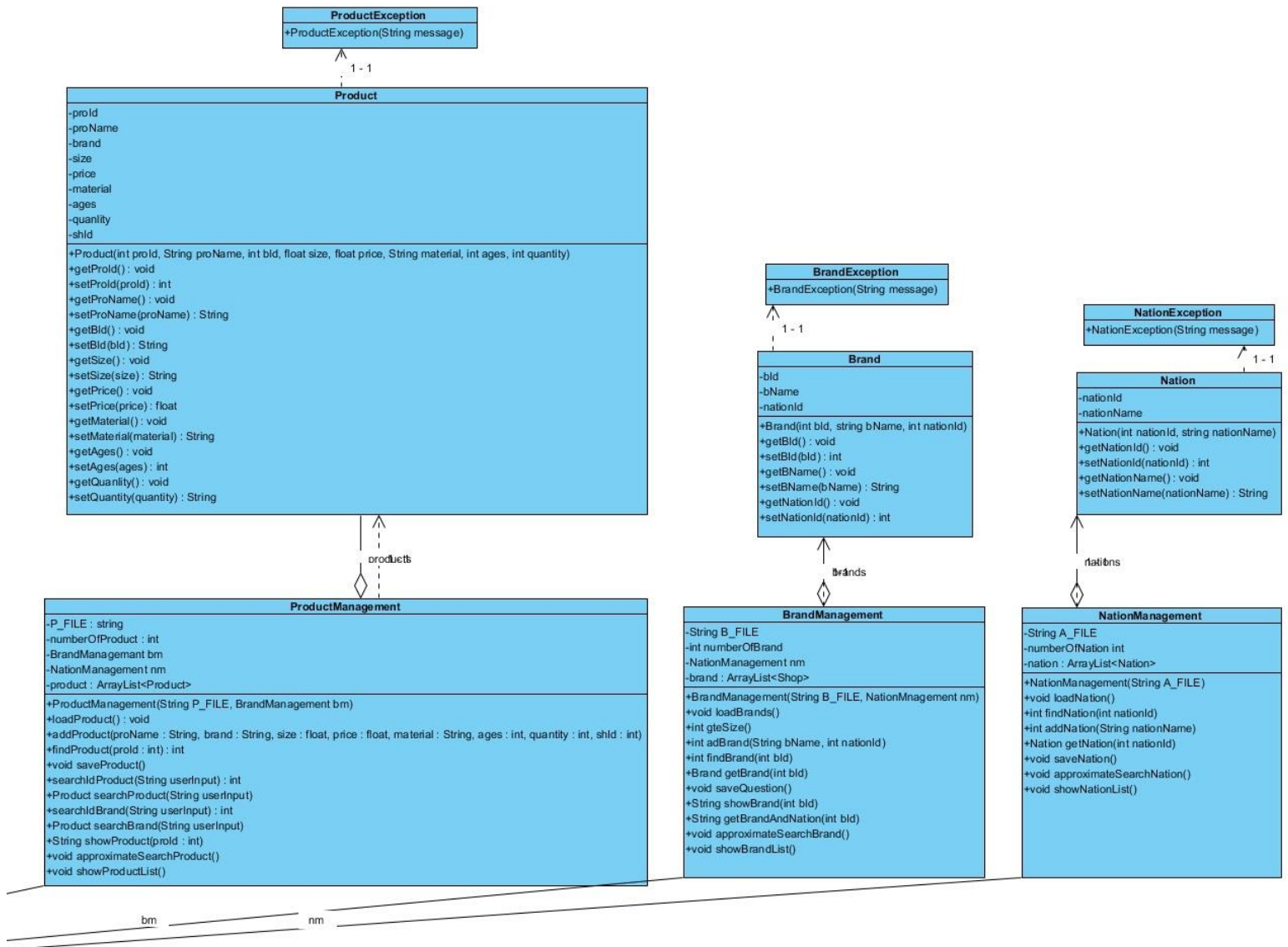
- First line is the number of brand of product
- The order of each line is:
 - + ID of brand type (int)
 - + Name of brand: type (String)
 - + Nation ID: type (int)

In nation.txt file:

- First line is the number of nation of product
- The order of each line is:
 - + ID of nation (origin): type (int)
 - + Name of nation (origin): type (String)

➤ Class diagrams





8. INTERFACE

Menu application

```
##### WELCOME TO MY PROGRAM #####

#-----# MENU APPLICATION #-----#
#   1. Add data information for shop.   #
#   2. Search data information of shop.  #
#   3. Show shop information.           #
#   4. Exit.                           #
#-----#

Please choose function you want to use:
```

Menu Add Function

```
#-----# ADD DATA INFORMATION SHOP #-----#
#       1. Add branch (shop).         #
#       2. Add warehouse.              #
#       3. Add product.                #
#       4. Add brand                   #
#       5. Add nation(origin)          #
#-----#
```

Menu Search Function

```
#-----# SEARCH DATA INFORMATION SHOP #-----#
#       1. Search branch (shop).       #
#       2. Search warehouse.            #
#       3. Search product.              #
#       4. Search brand.                #
#       5. Search nation(origin).       #
#-----#
```




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Menu Show Function

```
#-----# SHOW DATA INFORMATION SHOP #-----#  
#      1. Show branch (shop).      #  
#      2. Show warehouse.          #  
#      3. Show product.            #  
#      4. Show brand.              #  
#      5. Show nation(origin).     #  
#-----#
```

Exit Function

```
#-----# THANKS FOR USED US SOFTWARE #-----#  
# If you have a problem or have any questions. Please contact us via: #  
# Phone number: 0704-605-569 #  
# Email: TanPNMCE130084@fpt.edu.vn #  
# See you again! #  
#-----#
```

9. CHECKLIST

No.	Document Name	Planned Start Date	Estimated times	Completion time	Actual time	Group member names
1	Problem definition	13:00 12/02/2019	3 hours	15:30 12/02/2019	2.5 hours	TanPNM, AnTQ
2	Database analyst	21:30 13/02/2019	1 day	21:00 14/02/2019	01 day	TanPNM, AnTQ
2	Submit document 01	15/02/2019		23:45 15/02/2019		TanPNM
3	Fix problem definition 01	22:00 18/02/2019	1 day	19:30 19/02/2019	22 hours	AnTQ
4	Fix problem definition 02	20:00 22/02/2019	1.5 hours	09:00 22/02/2019	1 hour	TanPNM
5	Fix database analyst	20:15 22/02/2019	2.5 hours	23:30 22/02/2019	2 hours	TanPNM
6	Re-submit	24/02/2019		23:45 24/02/2019		TanPNM
7	Design outline	18:00 03/03/2019	18 hours	10:45 04/03/2019	17 hours	Thong HM
8	Design document & Complete document	20:00 05/03/2019	18 hours	00:30 06/03/2019	4.5 hours	AnTQ, Thong HM

9	Class diagrams project	20:00 05/03/2019	18 hours	02:45 06/03/2019	7 hours	TanPNM
10	Complete classes of program	18:00 11/03/2019	4 days	22:45 15/03/2019	4 days	TanPNM, AnTQ, ThongMH
11	Do class application	18:00 16/03/2019	2 days	8:00 18/03/2019	2 days	TanPNM, AnTQ
12	Complete final application	20:15 18/03/2019	26 hours	00:30 20/03/2019	28 hours	TanPNM
13	Make PowerPoint	18:30 21/03/2019	28 hours	22:00 22/03/2019	27 hours	TanPNM, AnTQ, ThongMH