VIETNAM GENERAL CONFEDERATION OF LABOUR

**TON DUC THANG UNIVERSITY**

**FACULTY OF INFORMATION TECHNOLOGY**



**BIG ASSIGNMENT**

**Requirements Analysis and Design**

*Advised by*: **Ho Thi Thanh Tuyen**

*Authors*:  **Ngo Duc Huy – 522H0038**

**Dang Thanh Nhan – 522H0006**

**Vo Nhat Hao – 522H0090**

**Nguyen Thanh Nhan – 522H0051**

**HO CHI MINH CITY, 2024**

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Finally, we would like to send kind words to you forgiving us the opportunity to work on our essay and improve our knowledge.

*Ho Chi Minh City, April 11, year 2024*

*Author*

*(Signature and full name)*

*Ngo Duc Huy  
 Dang Thanh Nhan  
 Vo Nhat Hao  
 Nguyen Thanh Nhan*

# THE REPORT WAS COMPLETED AT TON DUC THANG UNIVERSITY

I hereby declare that this is our own research work, conducted under the scientific supervision of Ms. Ho Thi Thanh Tuyen. The research contents and results in this topic are truthful and have not been previously published in any form. The data presented in tables and figures, serving for analysis, comments, and evaluations, are collected by the author from various sources, clearly referenced in the reference section.

Furthermore, the project also incorporates some comments, evaluations, as well as data from other authors, and different organizations, all of which are appropriately cited and referenced.

**If any misconduct is discovered, I take full responsibility for the content of my project.** Ton Duc Thang University is not liable for any copyright infringements or violations caused by me during the implementation process (if any).

*Ho Chi Minh City, April 11, year 2024*

*Author*

*(Signature and full name)*

*Ngo Duc Huy  
 Dang Thanh Nhan  
 Vo Nhat Hao  
 Nguyen Thanh Nhan*

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# TASK 1: USE CASE DIAGRAM

## https://lh7-us.googleusercontent.com/TUmGR17gw7cA_4gNGcuKwzr3P1Se6pavm-zaD0gJ4dpZtnKg3TajNHUehNFLQxH7u1pGPzd1VsZ6DUaOzlnsHV1bMINuhmDdDy5U5xTuYVpmliAe-hpsyoc0r992WIl6AocLOEOmQCasd2I=s2048General use case

## Decomposition use case

### https://lh7-us.googleusercontent.com/BsRyAO3VO4bxxMpQJ7GGHp8b72DrkVBA7ad6CCOuZVymIOhyJBqyCS92gAm-EGoFazYZR-y0kipMN4xBUz-Y4iFpFSXage9HcNWgx8kotH7OpCH68VkgBFdCDTlPAi03DOmKwSAiVmaRArM=s20481.2.1 Use case Sign in

### https://lh7-us.googleusercontent.com/5SjoxYuPC7jlCXsbtbS4QAykEEaOzavje3vihbbGvVex5AL202IqM3pJJ3A499KfY4shWCRgNLUOBSzL9LU2E31tGclyzMczLsUU7akVycItMmE2LMyMBavLLtUNX8vwLs3wHpwtSCrVC1A=s20481.2.2 Use case Place order

### https://lh7-us.googleusercontent.com/iU8gEvHgDEnfVAxvOM5vz5vj6B32kzxPQX0-yH53mae1hOe9_zKdnspl_Dzz8aJKrfikLqzpguTD9CSe4vfz4D3d97zW2vrIuvCRwUuqGcC3RoY3magDm4Jl_qcEkbl8yipDUEqnpiNWMwg=s20481.2.3 Use case manage Shopping cart

### https://lh7-us.googleusercontent.com/4kAcnkts10t37VRvIQSfJlRluVZ5aOiMZsJzWPHkM1SSxUG0tWr-dP0wV-0y__GC4Tp4rHf_Q1t0rMETgnuClklHLetqmNbSXrGqCeeLaVf194UEWiHsKsAbVki9jl3846vSUyJUHwMhrfw=s20481.2.4 Use case Search products

### https://lh7-us.googleusercontent.com/1gWwtaI5pOvWsBBCYO1ZFCtGc3egcr0C_CeRZlAxeg8g_KfJEx8PbT2tv8aa0w9JOkgpbOsmbwfEB50HRICzsB0NV0-ooxGFr_ZV_WifCzdc5OcVIkCNN41nxuYfNiXOflRC3RdynU6ag7Y=s20481.2.5 Use case Manage category

### https://lh7-us.googleusercontent.com/Vn026sDa3Tl9hMUkiKhHa5icEU6xYuVmZTK6fQDYf84d0l_zHwnAQIzegOm0G51Z2ZJEsSgkUDbzQ7UK-zA3Tbmg6NkIR0b1jRo4L3wAq2bUFZUDS4yDYg2X0Q89B-iFREU3ey1bYUdtP8I=s20481.2.6 Use case Manage order

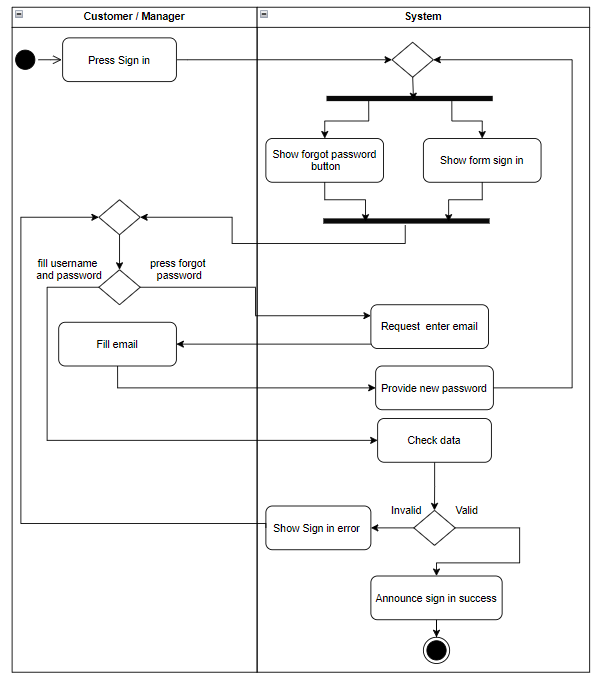
### https://lh7-us.googleusercontent.com/n3B3-XfYu_-TjkTyiplESwvPymghkoRZqSek3LEPKxarooJfW4KT3EXa4puTQOORP9sMQEZr4LhXKtBuUr8baKLKCKil2EnsznOWtpwiMAA7gn8WiF76Y8YPa9t0Q_mv1N98g3aVIGCbrs8=s20481.2.7 Use case Manage customer

### https://lh7-us.googleusercontent.com/feJ_vW9PYe24VmBKP7oUgobnWzfPAfGsCM40VRYMT5uyH5Guq8vUPf_uGG29o8zs2fvfQiWortgY7Wsktqj18xnNRIqazqDYVtJJ45WlhD5VZUt1OczYo6HNIDCygdjAJ3fR12dmJIjtN7Q=s20481.2.8 Use case Control debt

### https://lh7-us.googleusercontent.com/zM48NL614a5wykdSVmDBV-u_UpCwF08UCd_PIGUvIIO4ZTnXkZjsjp0U5VJl9UzYh0IPwxEFDzZBeOav8PGMPU0QsK5IBpuHUV2vOvxOG1cfjIv6DkidQMJAxw6QRV9co6fn2xNI8WszXLs=s20481.2.9 Use case Manage inventory

### https://lh7-us.googleusercontent.com/Pk7AQ5qvYSd5ejBjD7g49qPI1KovO8X3qExLvCZXPoium3iK_kLuDuFEB3_rUt8fgZAx3Vdifn5QarJu5fKQg5F3SsE5DYA-m_0Pve2mnLBrJ714G0lwkhzPo6Bzr99whyZ6UPJcrah38Is=s20481.2.10 Use case Report

# TASK 2: ACTIVITY DIAGRAM

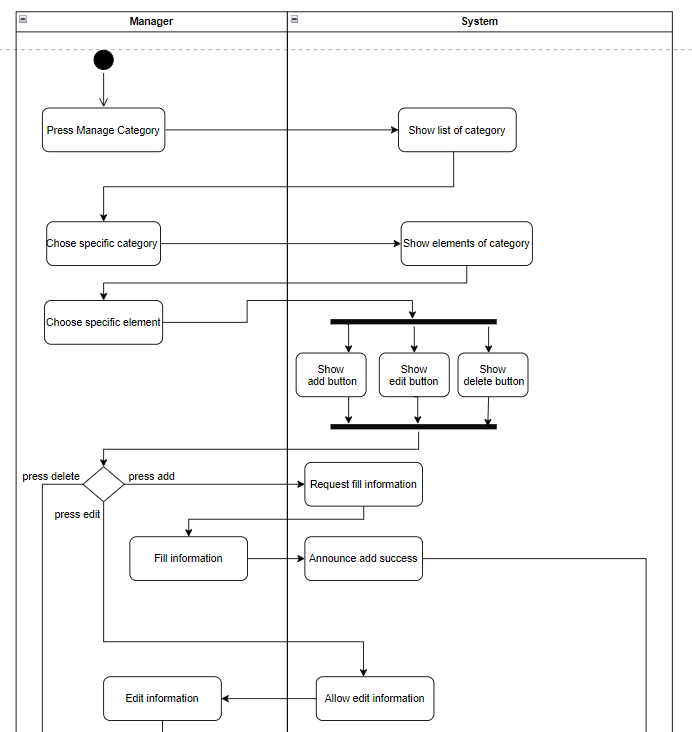
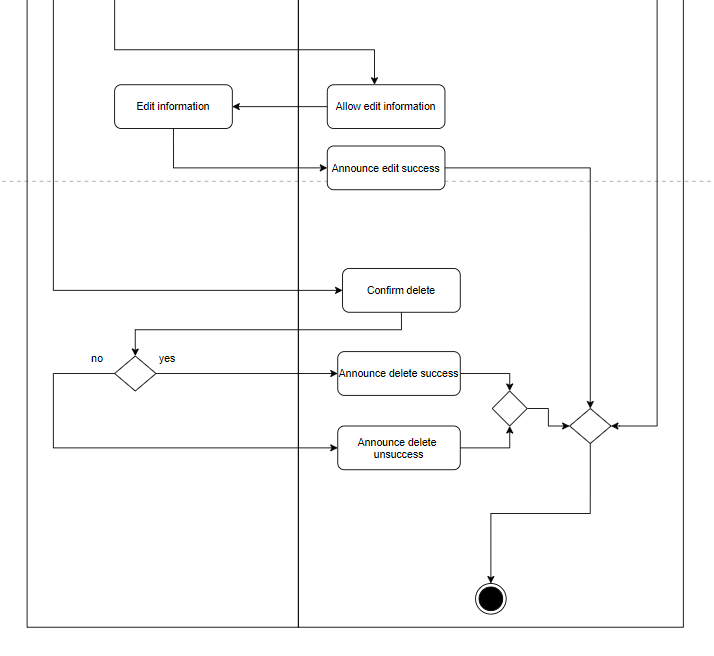
1. 

## Activity Diagram Sign in

## Activity Diagram Search products

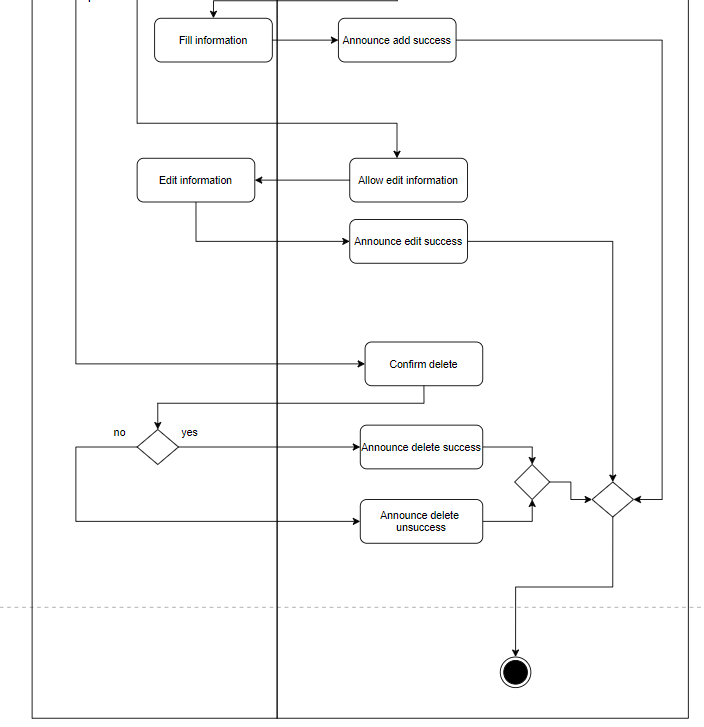
## Activity Diagram Manage shopping cart

## Activity Diagram Manage category

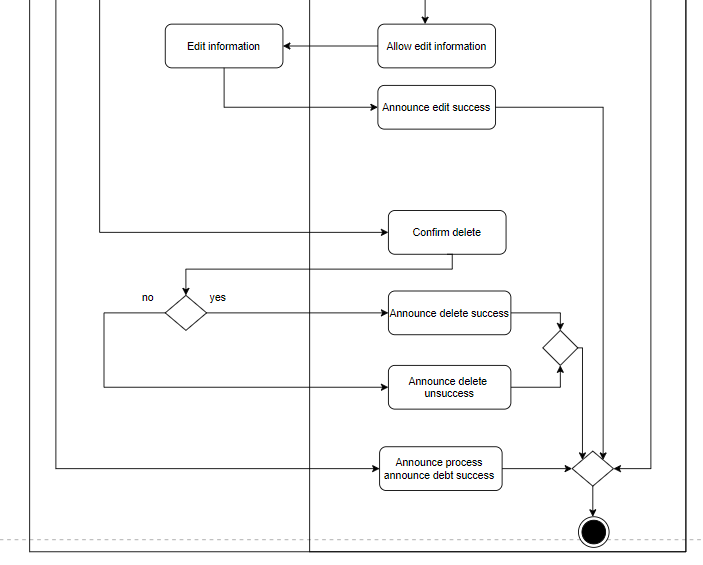


## Activity Diagram Manage order

## Activity Diagram Manage customer



## Activity Diagram Control debt

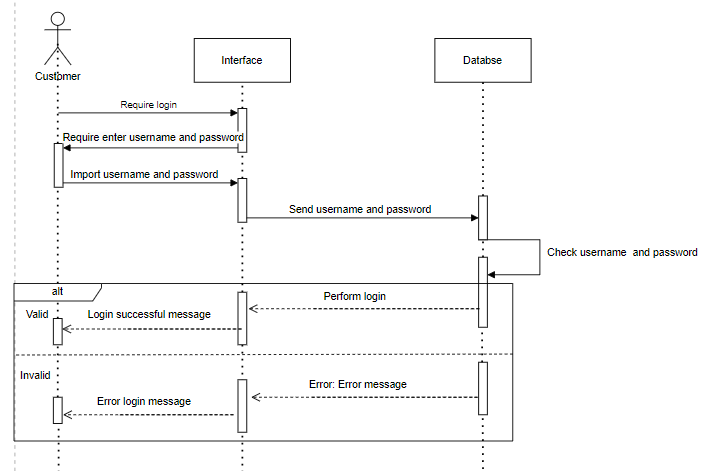


## Activity Diagram Manage inventory

## Activity Diagram Report

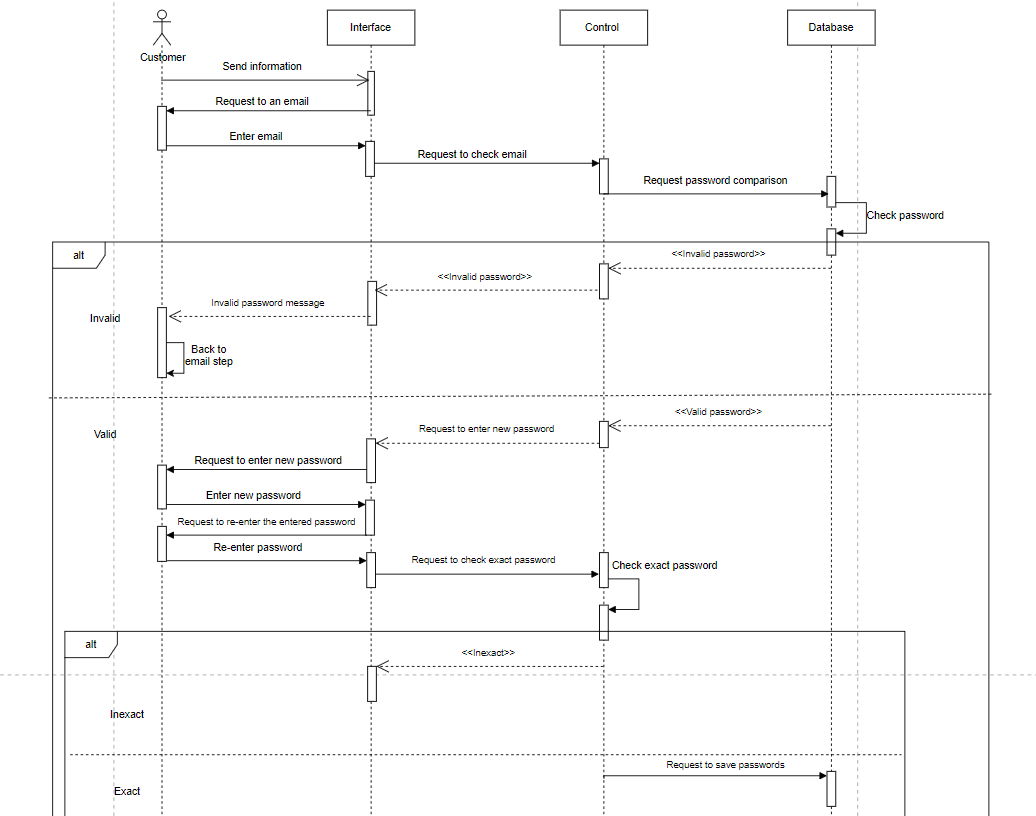
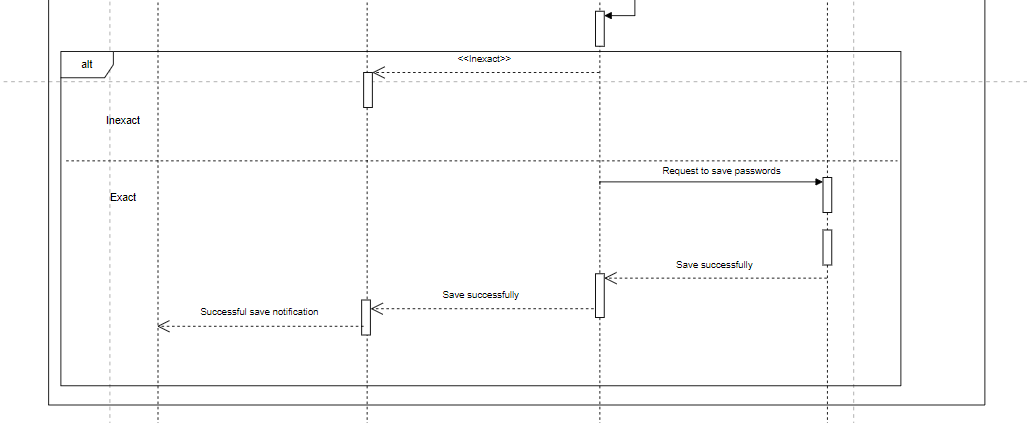
# TASK 3: CLASS DIAGRAM

# TASK 4: SEQUENCE DIAGRAM

1. 

## Sequence Diagram Sign in

## Sequence Diagram Forgot password



## Sequence Diagram Manager customer

## Sequence Diagram Search product

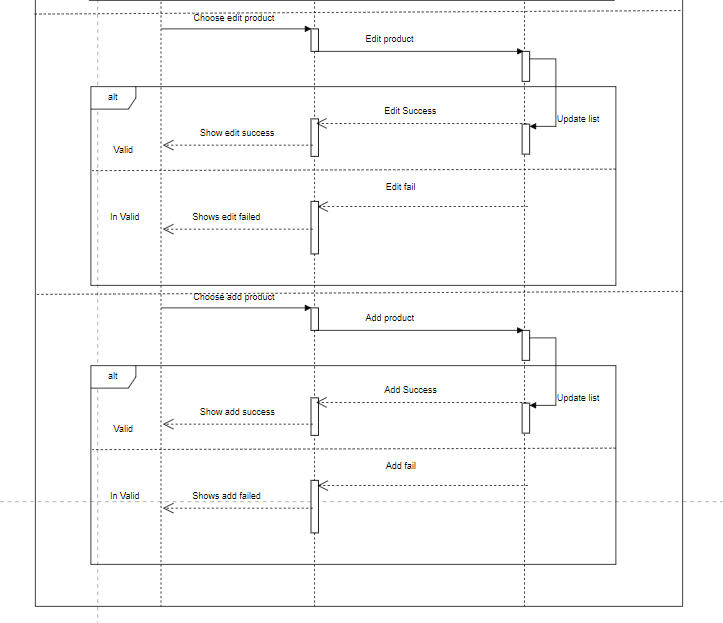
## Sequence Diagram Payment

## Sequence Diagram Report

## Sequence Diagram Place order

## Sequence Diagram Manager debt

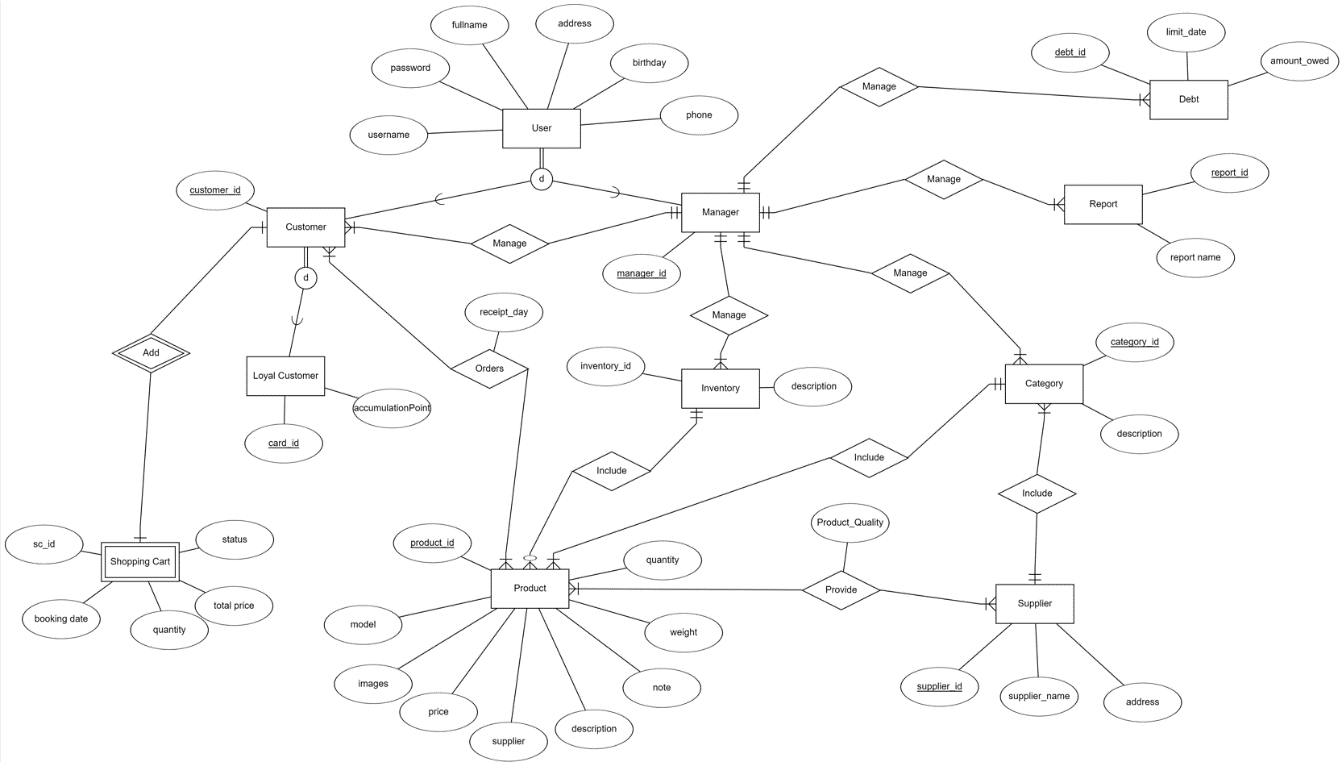
## Sequence Diagram Manager inventory



## Sequence Diagram Manager order

## Sequence Diagram Manager category

# TASK 5: DATABASE MODEL

1. 

## ERD

## Relational Schema

# REFERENCES

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* Sequence Diagram: <https://creately.com/guides/sequence-diagram-tutorial/>