100

Team 2

Increment 1:

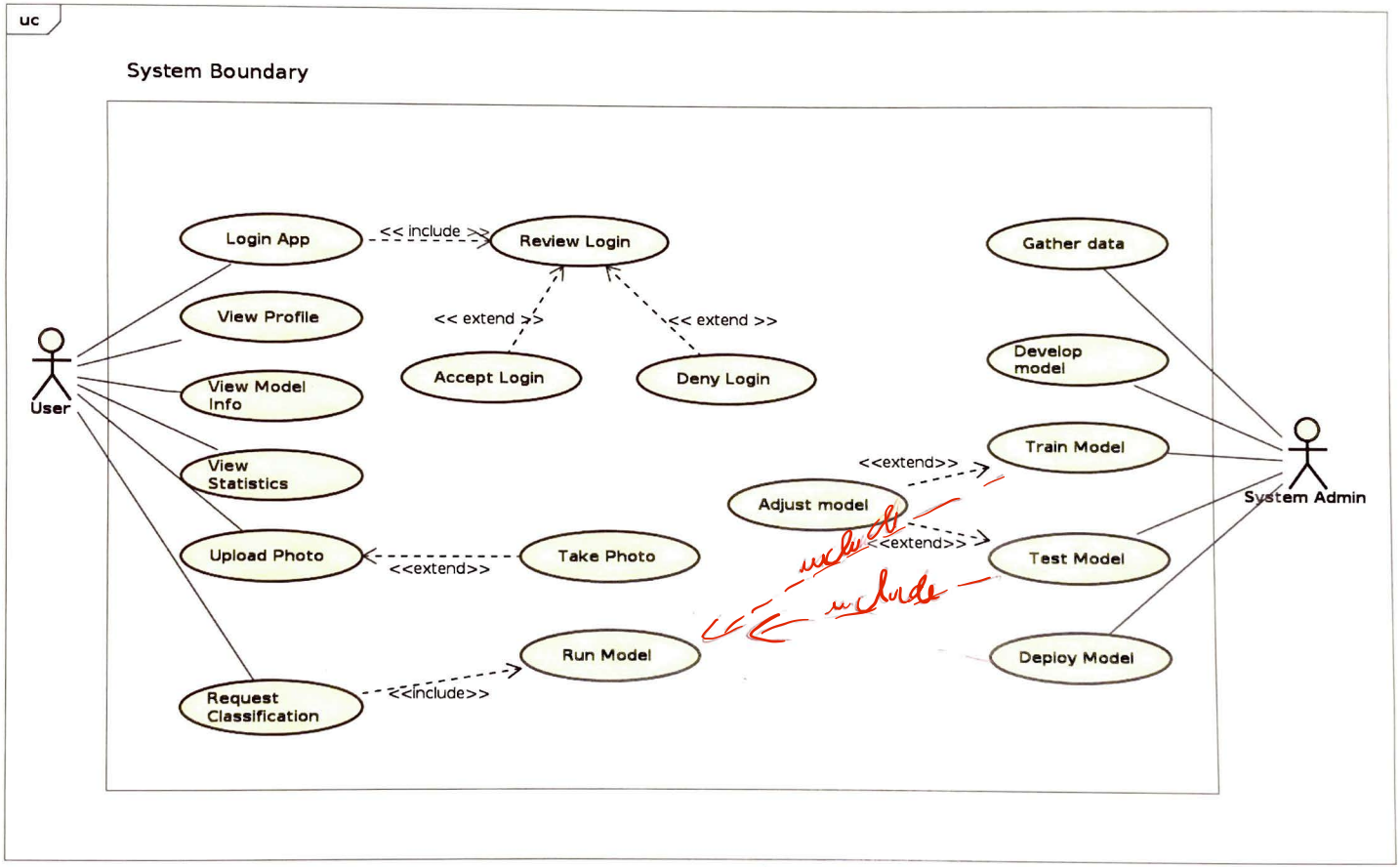
UML Diagrams

Members:

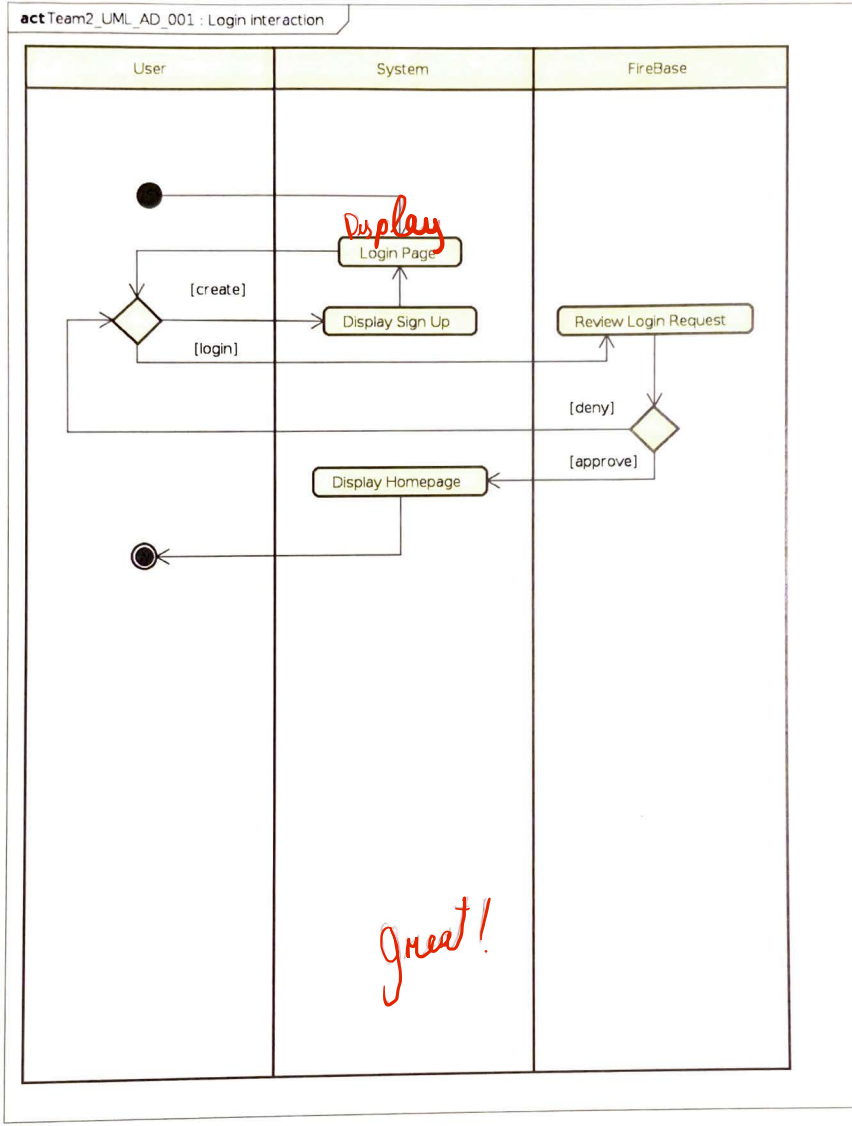
Edrik Aguilera
William Anderson
Ryan Laurents
Jonathan Padilla

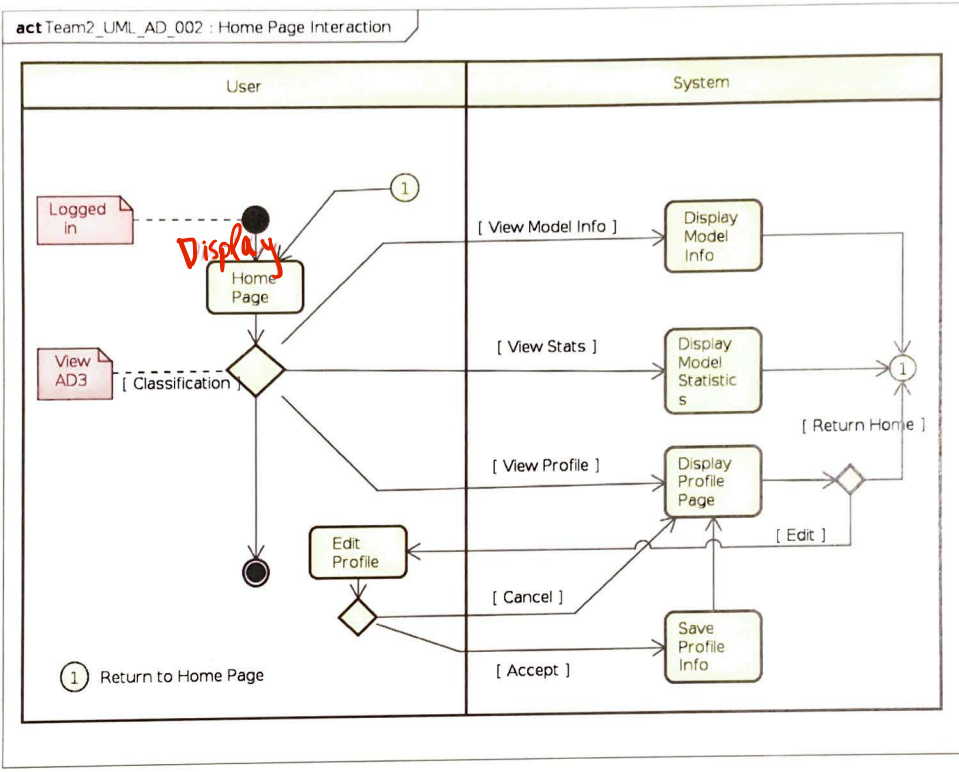
Excellent Job!

Team2_UML_UC_001

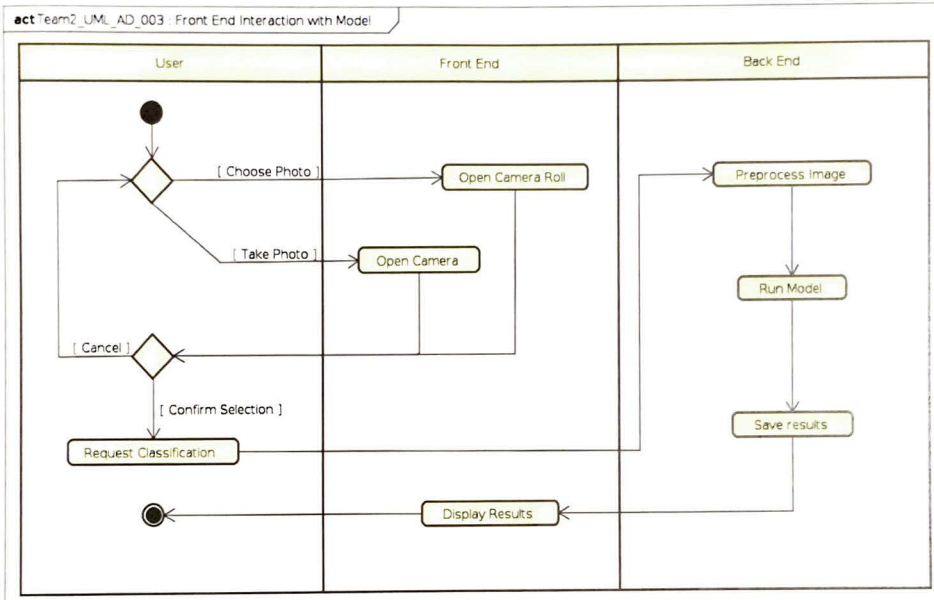


excellent

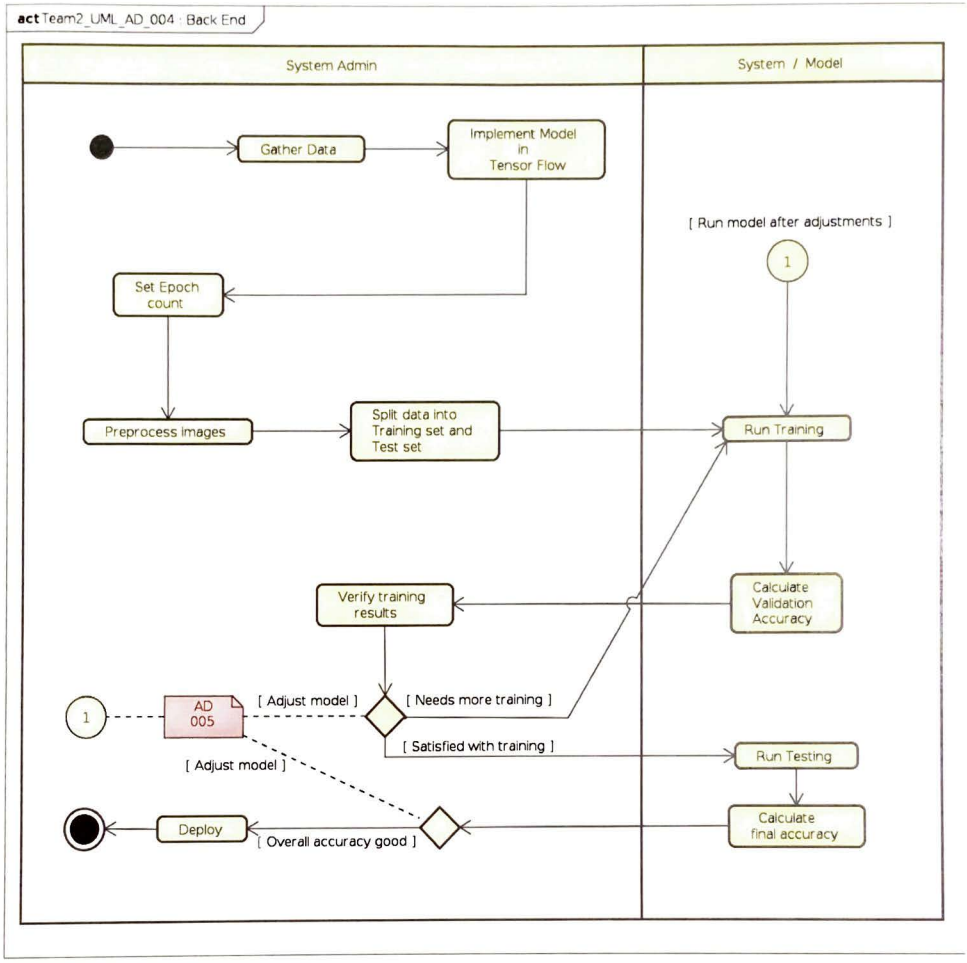

act Team2_UML_AD_001 : Login interaction
User
System
FireBase
Display
Login Page
[create]
Display Sign Up
Review Login Request
[login]
[deny]
[approve]
Display Homepage
great!


act Team2_UML_AD_002 : Home Page Interaction
User
System
Logged in
Display
Home Page
1
[View Model Info]
Display Model Info
View AD3
[Classification]
[View Stats]
Display Model Statistic s
1
[Return Home]
[View Profile]
Display Profile Page
[Edit]
Edit Profile
[Cancel]
Save Profile Info
[Accept]
1 Return to Home Page

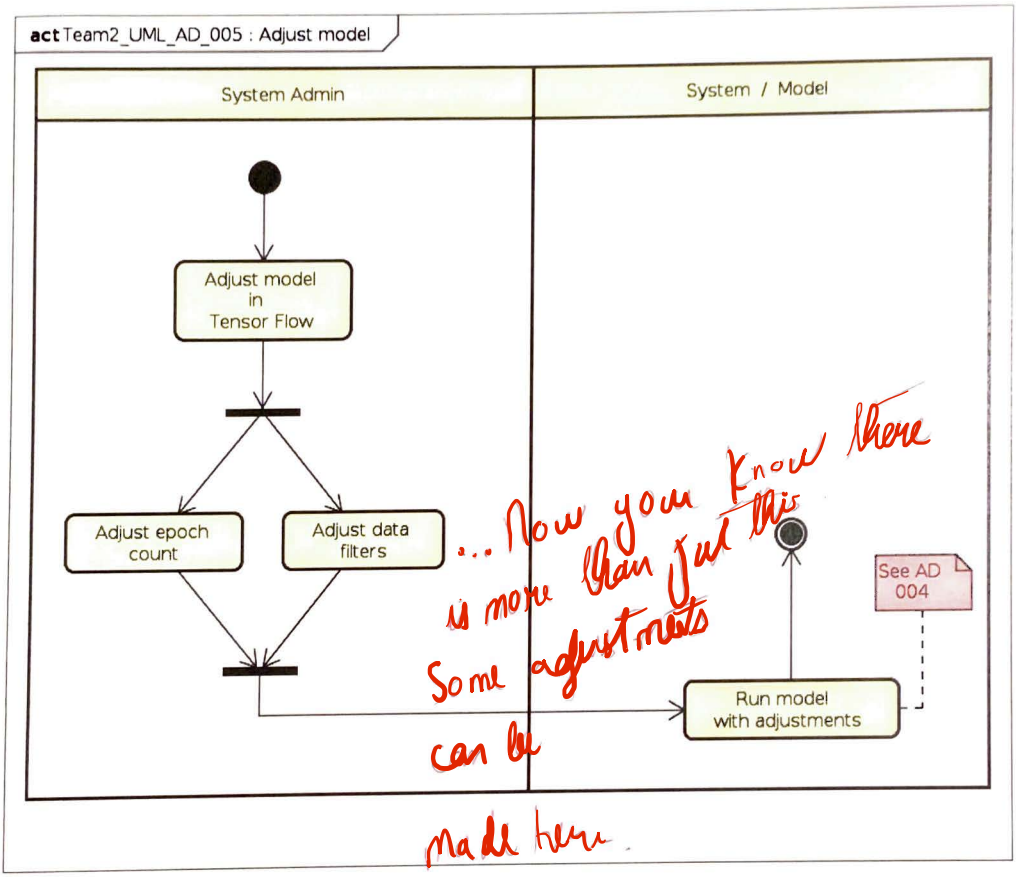
great!

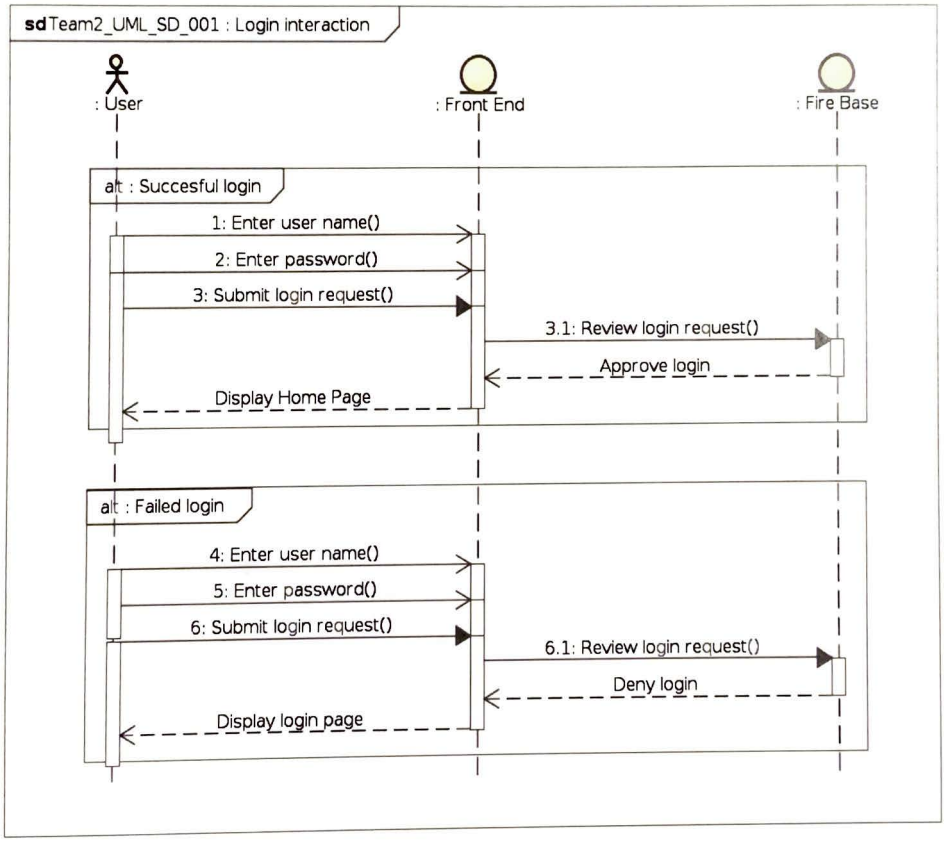

act Team2_UML_AD_003 : Front End Interaction with Model
User
Front End
Back End
[Choose Photo]
Open Camera Roll
Preprocess Image
[Take Photo]
Open Camera
Run Model
[Cancel]
[Confirm Selection]
Save results
Request Classification
Display Results

great!

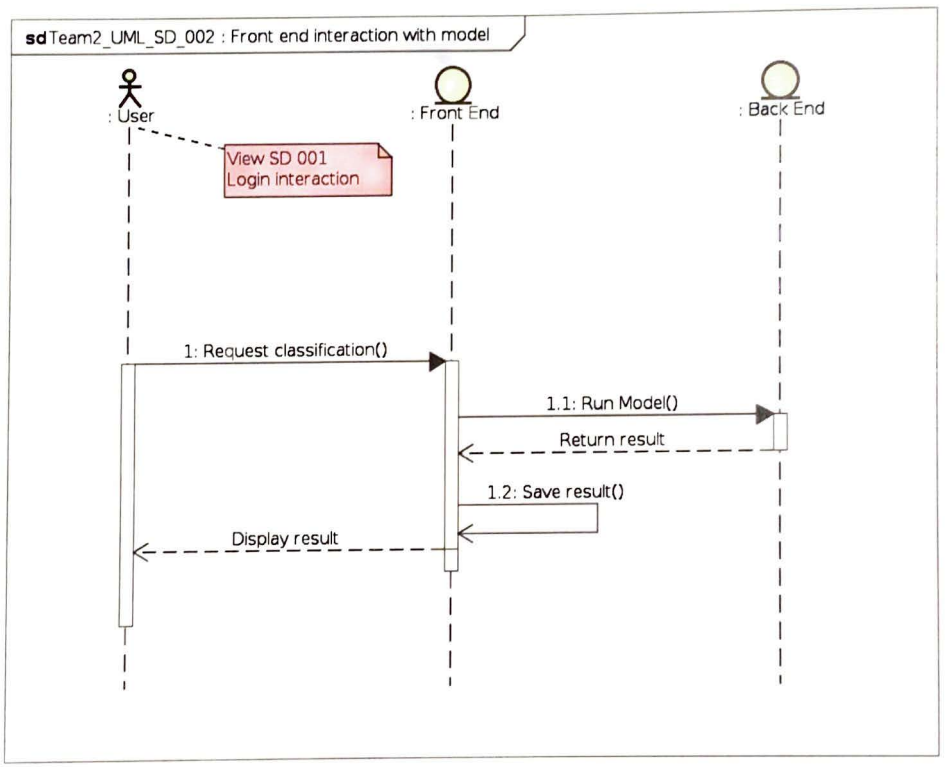

act Team2_UML_AD_004 : Back End
System Admin
System / Model
Gather Data
Implement Model in Tensor Flow
[Run model after adjustments]
1
Set Epoch count
Preprocess images
Split data into Training set and Test set
Run Training
Verify training results
Calculate Validation Accuracy
1
AD 005
[Adjust model]
[Needs more training]
[Satisfied with training]
[Adjust model]
Run Testing
Deploy
[Overall accuracy good]
Calculate final accuracy

Excellent!

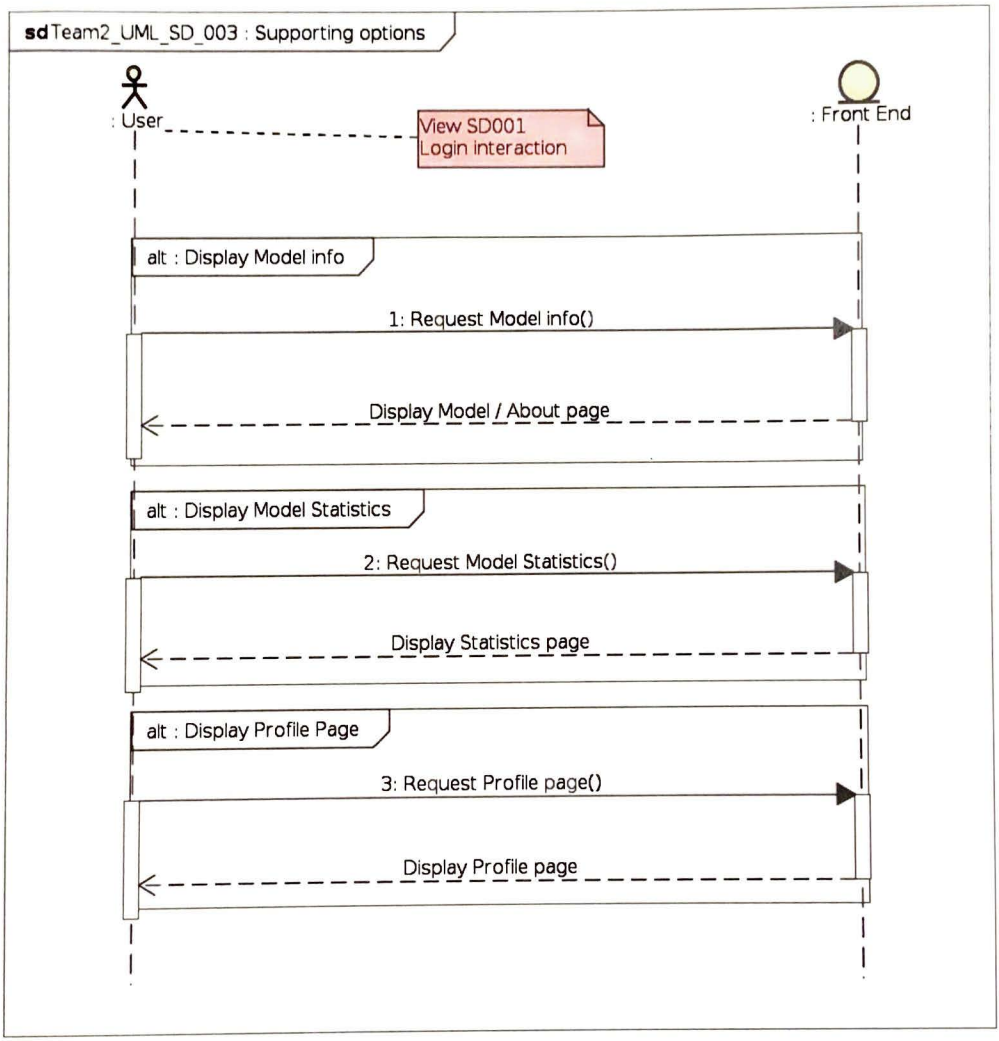

act Team2_UML_AD_005 : Adjust model
System Admin
System / Model
Adjust model in Tensor Flow
Adjust epoch count
Adjust data filters
Run model with adjustments
See AD 004
... Now you know there is more than just this
Some adjustments can be made here.


sd Team2_UML_SD_001 : Login interaction
: User
: Front End
: Fire Base
alt : Succesful login
1: Enter user name()
2: Enter password()
3: Submit login request()
3.1: Review login request()
Approve login
Display Home Page
alt : Failed login
4: Enter user name()
5: Enter password()
6: Submit login request()
6.1: Review login request()
Deny login
Display login page

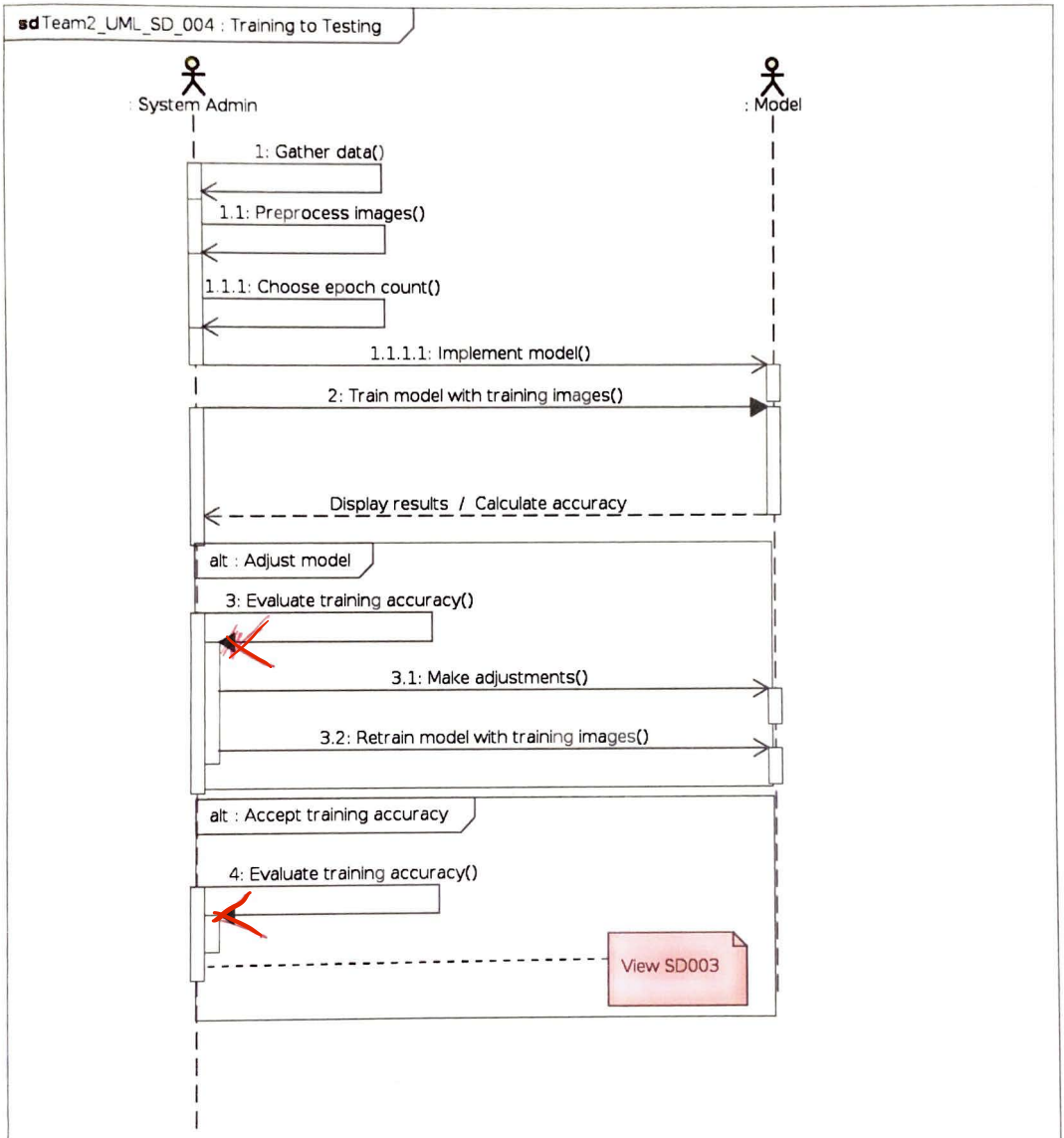
Awesome


sd Team2_UML_SD_002 : Front end interaction with model
: User
: Front End
: Back End
View SD 001
Login interaction
1: Request classification()
1.1: Run Model()
Return result
1.2: Save result()
Display result

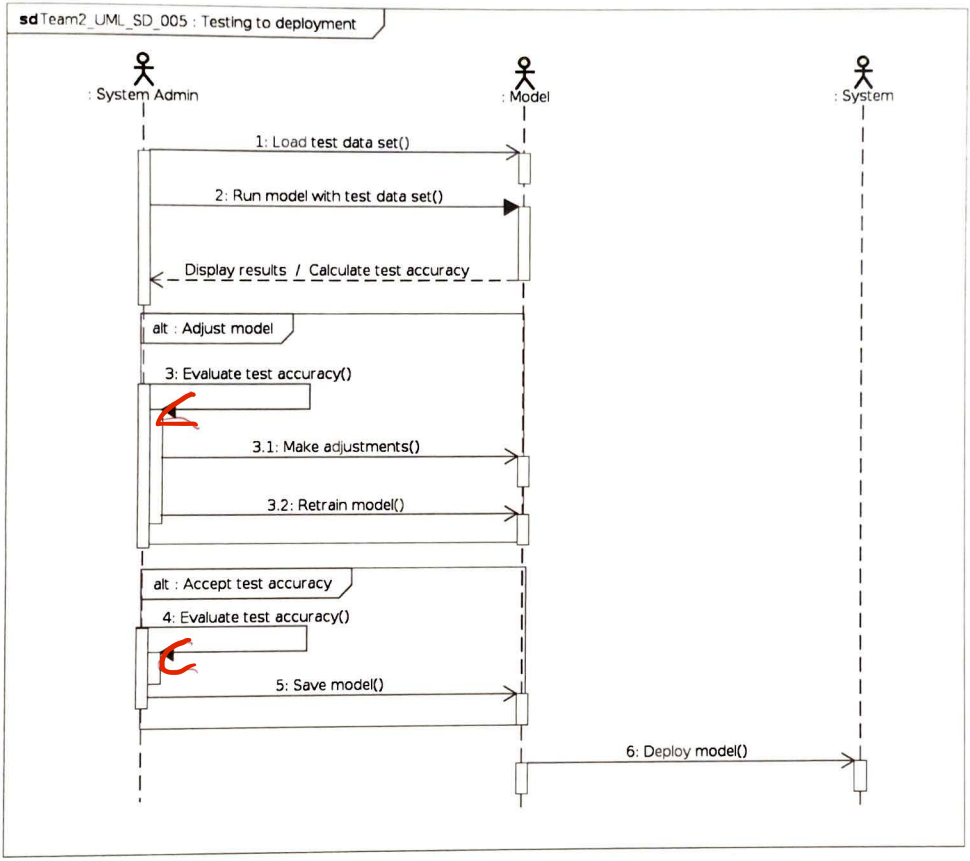
Great !


sd Team2_UML_SD_003 : Supporting options
: User
: Front End
View SD001
Login interaction
alt : Display Model info
1: Request Model info()
Display Model / About page
alt : Display Model Statistics
2: Request Model Statistics()
Display Statistics page
alt : Display Profile Page
3: Request Profile page()
Display Profile page

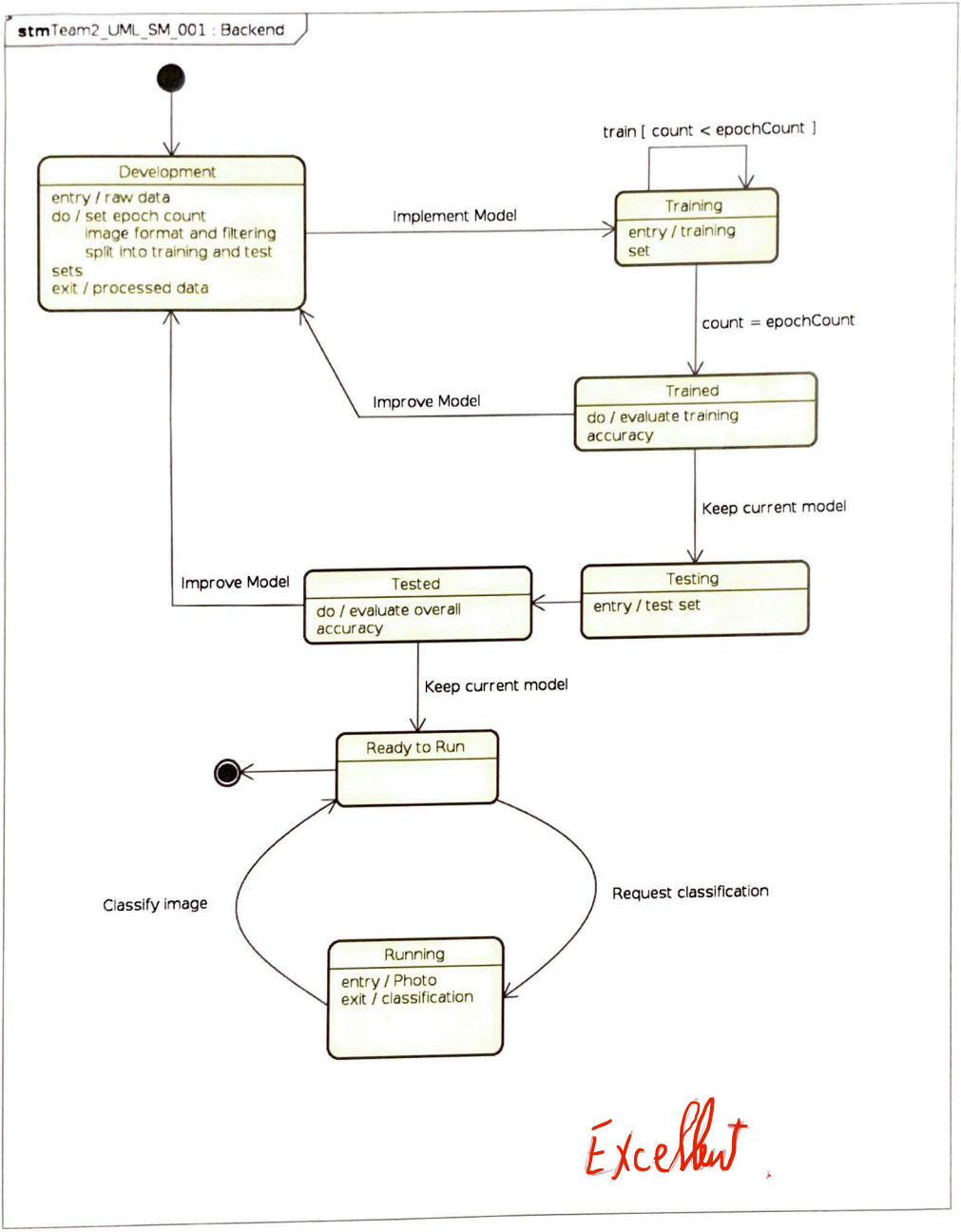
good


sd Team2_UML_SD_004 : Training to Testing
: System Admin
: Model
1: Gather data()
1.1: Preprocess images()
1.1.1: Choose epoch count()
1.1.1.1: Implement model()
2: Train model with training images()
Display results / Calculate accuracy
alt : Adjust model
3: Evaluate training accuracy()
3.1: Make adjustments()
3.2: Retrain model with training images()
alt : Accept training accuracy
4: Evaluate training accuracy()
View SD003

good


sd Team2_UML_SD_005 : Testing to deployment
: System Admin
: Model
: System
1: Load test data set()
2: Run model with test data set()
Display results / Calculate test accuracy
alt : Adjust model
3: Evaluate test accuracy()
3.1: Make adjustments()
3.2: Retrain model()
alt : Accept test accuracy
4: Evaluate test accuracy()
5: Save model()
6: Deploy model()

good

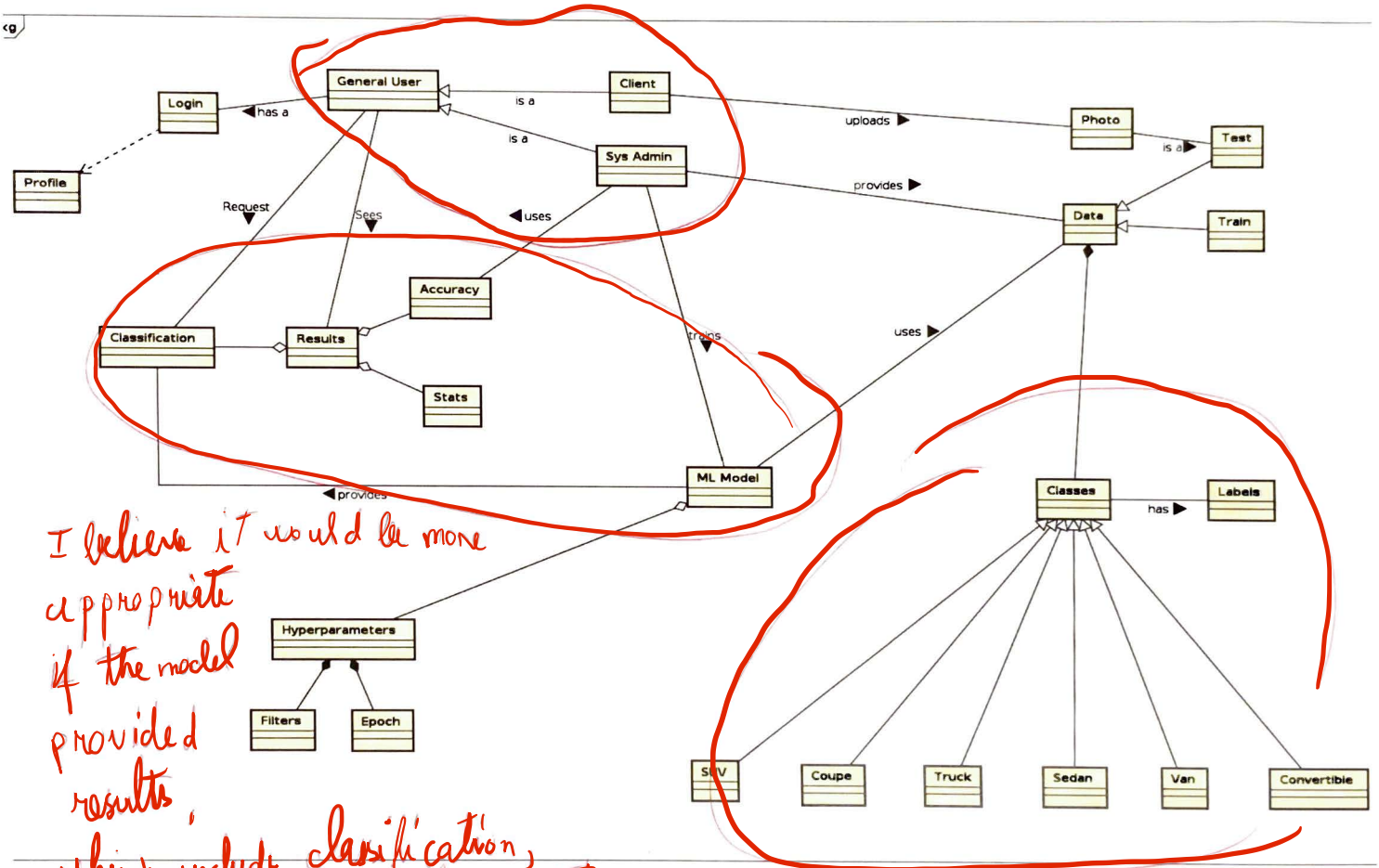

stmTeam2_UML_SM_001 : Backend
Development
entry / raw data
do / set epoch count
image format and filtering
split into training and test
sets
exit / processed data
Implement Model
train [count < epochCount]
Training
entry / training
set
count = epochCount
Trained
do / evaluate training
accuracy
Improve Model
Keep current model
Testing
entry / test set
Tested
do / evaluate overall
accuracy
Improve Model
Keep current model
Ready to Run
Classify image
Request classification
Running
entry / Photo
exit / classification

Excellent

Team2_UML_CD_001

good!

I was not sure about this, but I think it is ok.



I believe it would be more appropriate if the model provided results, which include classification, ~~results~~ stats, accuracy, etc.

Awesome