



Car Purchase System



Outline:

1 - PURPOSE

2 - REQUIREMENTS

3 - DESIGN

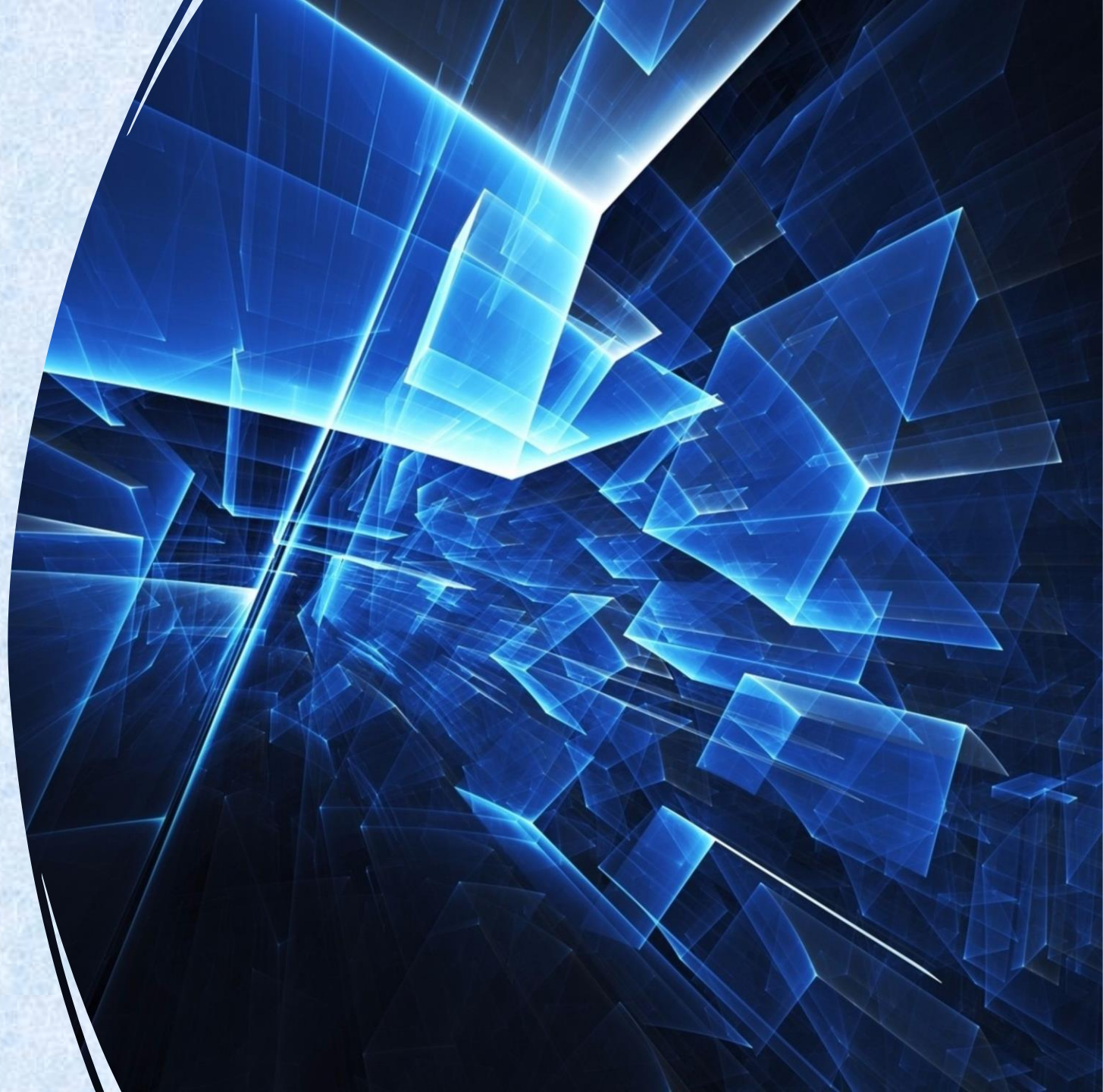
4 - CODING

5 - DEMO



Purpose of the Project:

- This system is a system created for car dealerships to sell cars.
- It is aimed for customers to purchase cars by entering this system.
- It is a system created to enable easy and safe shopping between car dealers and customers.



Requirements of the Project:

- It includes a registration and login system for users.
- It includes an admin panel for admins to edit cars and registered users.
- It includes a cart system for users. The user can see the cars in his cart from the My Cart screen.
- It includes a cash or installment payment system so that users can pay the cars they purchase in installment or in cash.







Car Purchase System



Welcome To The
Car Purchasing System

UserName

Password

Register

Login

Admin Login



Welcome To The Registration System



UserName

Email

Password

Confirm Password

Create Account

Cancel






Admin Login

UserName

Password

Login

Cancel



Main Menu

My Cart

Logout

BrandModalYear of productionPrice range


All

All

FilterReset

Brand	Modal	Year	Price
Audi	a5	2016	350000
Toyota	Corolla	2020	530000
Renault	Clio	2010	250000
Renault	Peugeot	2014	220000
Mercedes	c200	2021	850000
Bmw	i8	2021	1000000
Fiat	Egea	2016	120000
Mercedes	a200	2018	650000
Honda	Civic	2017	460000
Dacia	Duster	2020	600000
Volkswagen	Passat	2021	750000
Hyundai	i20	2015	180000
Volkswagen	Polo	2009	170000
Ford	Focus	2017	340000
Skoda	Superb	2018	440000
Honda	City	2019	560000

Select



Main Menu

My Cart

Logout

General Characteristics Of The Car

Brand

Toyota

Modal

Corolla

Year Of Production

2020

Price

530000

Add To Cart

Cancel




Main Menu

Logout

My Cart

Number	Brand	Modal	Year	Price
1	Toyota	Corolla	2020	530000

Confirm CartDelete




Car Panel

Logout

Customer Informations

Delete

UserName	Password	Email
user1	1234	user1@gmail.com
user2	4321	user2@gmail.com
user3	password123	user3@gmail.com



ADMIN

Customer Panel


Logout

Manage Car

BrandModalStatusYearPrice

AddEditDeleteReset

Brand	Modal	Year	Price	Status
Audi	a5	2016	350000	Available
Audi	a7	2019	550000	Booked
Toyota	Corolla	2020	530000	Available
Renault	Clio	2010	250000	Available
Renault	Peugeot	2014	220000	Available
Mercedes	c200	2021	850000	Available
Bmw	i8	2021	1000000	Available
Fiat	Egea	2016	120000	Available
Mercedes	a200	2018	650000	Available
Toyota	Yaris	2017	250000	Booked
Honda	Civic	2017	460000	Available
Dacia	Duster	2020	600000	Available
Volkswagen	Passat	2021	750000	Available
Hyundai	i20	2015	180000	Available
Volkswagen	Polo	2009	170000	Available
Ford	Focus	2017	340000	Available



Main Menu

My Cart

Logout

Payment

Price530000 \$

Card No1234 - 1234 - 1234 - 1234


Cash Payment

Installment Payment6 Month (+%5)

Monthly Price92750.0 \$

Total Price556500.0 \$

Confirm PurchaseCancel



Purchase Successful

Billing Information

Car 1

Brand: Toyota

Modal: Corolla

Year: 2020

Price: 530000

Monthly Price: 92750.0

Total Price: 556500.0

PrintBack To Menu

```

AdminPanel
- label : JLabel
- registrationNumberLabel : JLabel
- brandLabel : JLabel
- modelLabel : JLabel
- statusLabel : JLabel
- yearLabel : JLabel
- priceLabel : JLabel
- table : JTable
- registrationNumberTextField : JTextField
- brandTextField : JTextField
- modelTextField : JTextField
- yearTextField : JTextField
- priceTextField : JTextField
- statusComboBox : JComboBox
- adminPanelButton : JButton
- mainMenuButton : JButton
- logoutButton : JButton
- saveButton : JButton
- editButton : JButton
- deleteButton : JButton
- resetButton : JButton

<< constructor >>
AdminPanel()
- initComponents() : void
- adminPanelBtnActionPerformed(ActionEvent event) : void
- mainMenuBtnActionPerformed(ActionEvent event) : void
- logoutBtnActionPerformed(ActionEvent event) : void
- saveBtnActionPerformed(ActionEvent event) : void
- editBtnActionPerformed(ActionEvent event) : void
- deleteBtnActionPerformed(ActionEvent event) : void
- resetBtnActionPerformed(ActionEvent event) : void
- TableMouseClicked(MouseEvent event) : void

```

```

PurchasePanel
- label : JLabel
- brandLabel : JLabel
- modelLabel : JLabel
- yearLabel : JLabel
- priceRangeLabel : JLabel
- yearComboBox : JComboBox
- brandTextField : JTextField
- modelTextField : JTextField
- priceRangeComboBox : JComboBox
- table : JTable
- mycartButton : JButton
- logoutButton : JButton
- filterButton : JButton
- resetButton : JButton
- selectButton : JButton

<< constructor >>
PurchasePanel()
- initComponents() : void
- mycartBtnActionPerformed(ActionEvent event) : void
- logoutBtnActionPerformed(ActionEvent event) : void
- filterBtnActionPerformed(ActionEvent event) : void
- resetBtnActionPerformed(ActionEvent event) : void
- selectBtnActionPerformed(ActionEvent event) : void
- TableMouseClicked(MouseEvent event) : void

```

```

Login
- userNameLabel : JLabel
- passwordLabel : JLabel
- label1 : JLabel
- label2 : JLabel
- userNameTextField : JTextField
- passwordTextField : JTextField
- registerButton : JButton
- loginButton : JButton
- adminLoginButton : JButton

<< constructor >>
Login()
- initComponents() : void
- RegisterBtnActionPerformed(ActionEvent event) : void
- LoginBtnActionPerformed(ActionEvent event) : void
- AdminLoginBtnActionPerformed(ActionEvent event) : void

```

```

AddToCart
- label : JLabel
- brandLabel : JLabel
- modelLabel : JLabel
- yearLabel : JLabel
- priceLabel : JLabel
- brandTextArea : JTextArea
- modelTextArea : JTextArea
- yearTextArea : JTextArea
- priceTextArea : JTextArea
- mainMenuButton : JButton
- mycartButton : JButton
- logoutButton : JButton
- addToCartButton : JButton
- cancelButton : JButton

<< constructor >>
AddToCart()
- initComponents() : void
- mainMenuBtnActionPerformed(ActionEvent event) : void
- mycartBtnActionPerformed(ActionEvent event) : void
- logoutBtnActionPerformed(ActionEvent event) : void
- addToCartBtnActionPerformed(ActionEvent event) : void
- cancelBtnActionPerformed(ActionEvent event) : void

```

Preparing The Classes Of The Project

MyCart

- label : JLabel
- table : JTable
- mainMenu Button : JButton
- logout Button : JButton
- confirm Cart Button : JButton
- delete Button : JButton

« constructor »
MyCart()

- init components() : void

- Table MouseClicked (MouseEvent event) : void

- MainMenu Btn Action Performed (ActionEvent event) : void

- Logout Btn Action Performed (ActionEvent event) : void

- Confirm Cart Btn Action Performed (ActionEvent event) : void

- Delete Btn Action Performed (ActionEvent event) : void

PurchaseSuccessful

- label : JLabel
- back To Menu Button : JButton

« constructor »
PurchaseSuccessful()

- init components() : void

- Back To Menu Action Performed (ActionEvent event) : void

AdminLogin

- label : JLabel
- userNameLabel : JLabel
- passwordLabel : JLabel
- userName Text Field : JTextField
- password Text Field : JTextField
- login Button : JButton
- cancel Button : JButton

« constructor »
AdminLogin()

- init components() : void

- login Btn Action Performed (ActionEvent event) : void

- cancel Btn Action Performed (ActionEvent event) : void

Payment

- label : JLabel
- priceLabel : JLabel
- paymentMethodLabel : JLabel
- cardNoLabel : JLabel
- cashLabel : JLabel
- installmentLabel : JLabel
- purchasePriceLabel : JLabel
- totalPriceLabel : JLabel
- priceTextArea : JTextArea
- cardNoTextArea : JTextArea
- purchasePriceTextArea : JTextArea
- totalPriceTextArea : JTextArea
- radioButton : JRadioButton
- radioButton : JRadioButton
- radioButton : JRadioButton
- radioButton : JRadioButton
- comboBox : JComboBox
- myCart Button : JButton
- mainMenu Button : JButton
- logout Button : JButton
- confirm Purchase Button : JButton
- cancel Button : JButton

« constructor »
Payment()

- init components() : void

- MainMenu Btn Action Performed (ActionEvent event) : void

- myCart Btn Action Performed (ActionEvent event) : void

- confirm Purchase Btn Action Performed (ActionEvent event) : void

- cancel Btn Action Performed (ActionEvent event) : void

- radioButton Action Performed (ActionEvent event) : void

- radioButton Action Performed (ActionEvent event) : void

- radioButton Action Performed (ActionEvent event) : void

- radioButton Action Performed (ActionEvent event) : void

Register

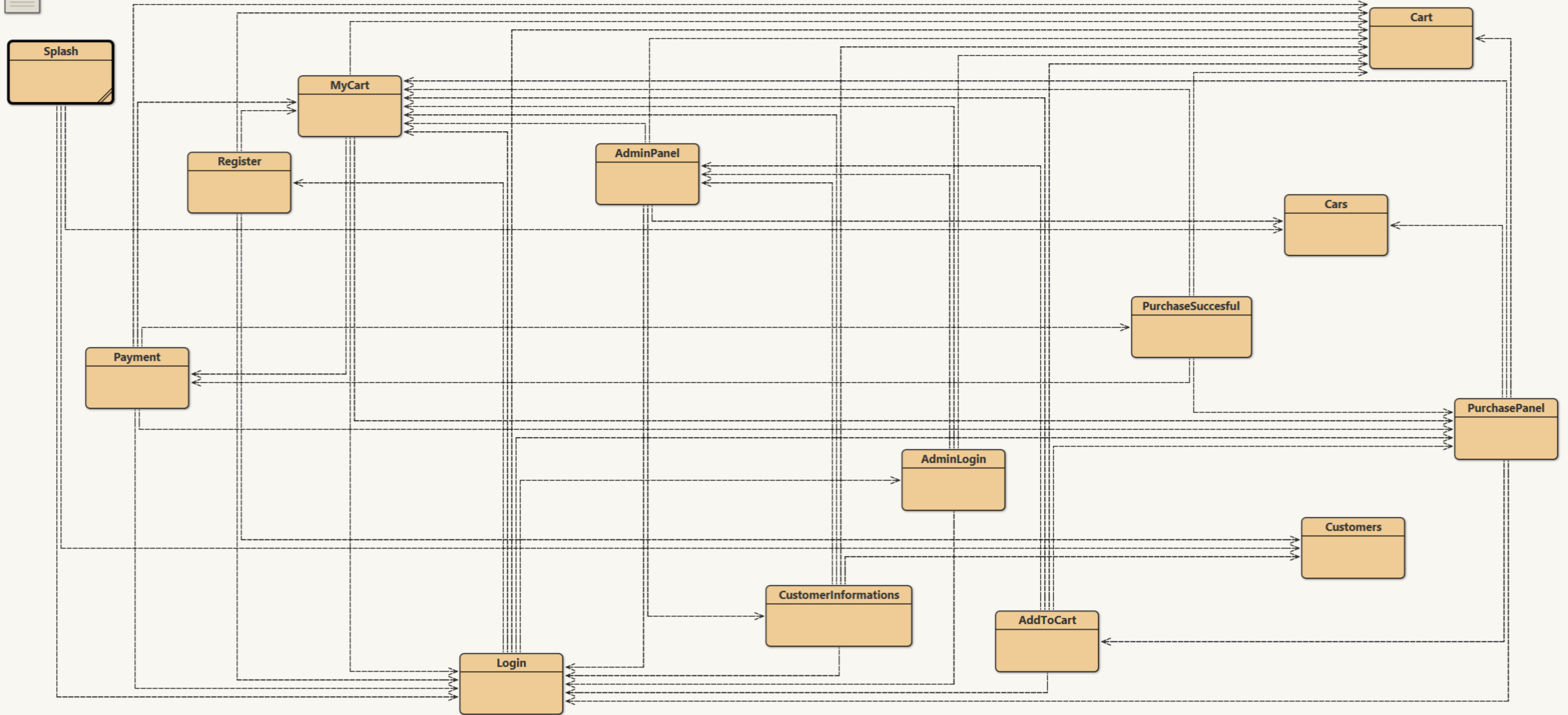
- label : JLabel
- userNameLabel : JLabel
- emailLabel : JLabel
- passwordLabel : JLabel
- confirmPasswordLabel : JLabel
- userNameText Field : JTextField
- emailText Field : JTextField
- passwordText Field : JTextField
- confirmPasswordText Field : JTextField
- createAccount Button : JButton
- cancel Button : JButton

« constructor »
Register()

- init components() : void

- createAccount Btn Action Performed (ActionEvent event) : void

- cancel Btn Action Performed (ActionEvent event) : void



Difficulties and Solutions in Design:

While we were developing the design, we had some difficulties at first as we had never used this type of IDE before. But we learned NetBeans over time and it became easier for us to improve the design. After everything is completed, our design has become a design that everyone can easily understand and use.

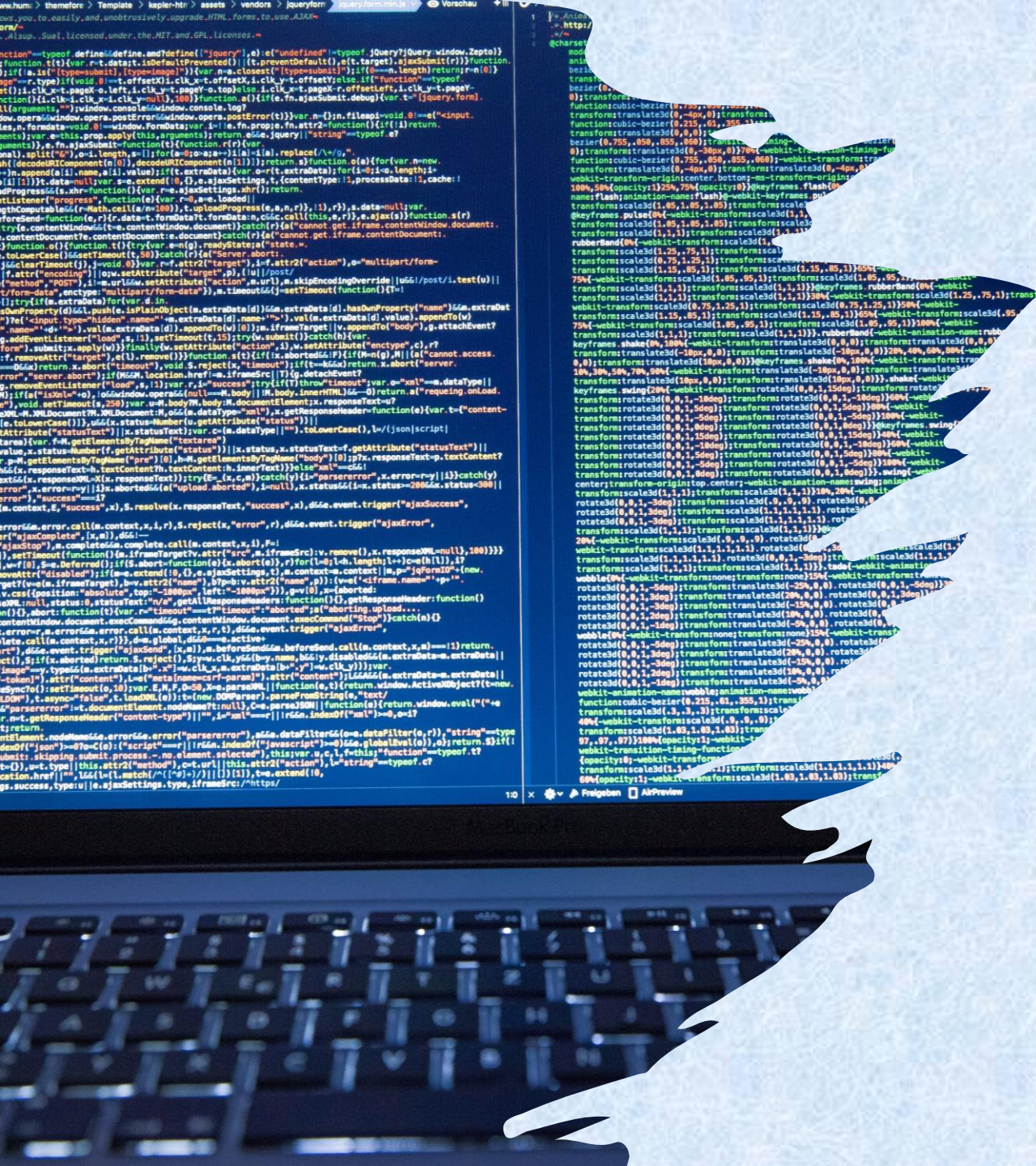
Development (Coding):

We used many different topics in developing the software. While developing the software of the project, the subjects we learned in java I and java II were very helpful in developing the project. Especially the "array" and "input/output" topics helped us a lot in developing the project.



We used NetBeans as the IDE while developing the design. We found NetBeans very convenient for designing and coding and observed that it was easier than other IDEs.





Difficulties and Solutions in Software Coding:

While coding the software, we had difficulties from time to time, these difficulties are usually due to the fact that we have not done this type of project before. Our lack of experience prolonged the project and made it a bit more difficult. However, we overcame the difficulties we faced by researching and thinking.