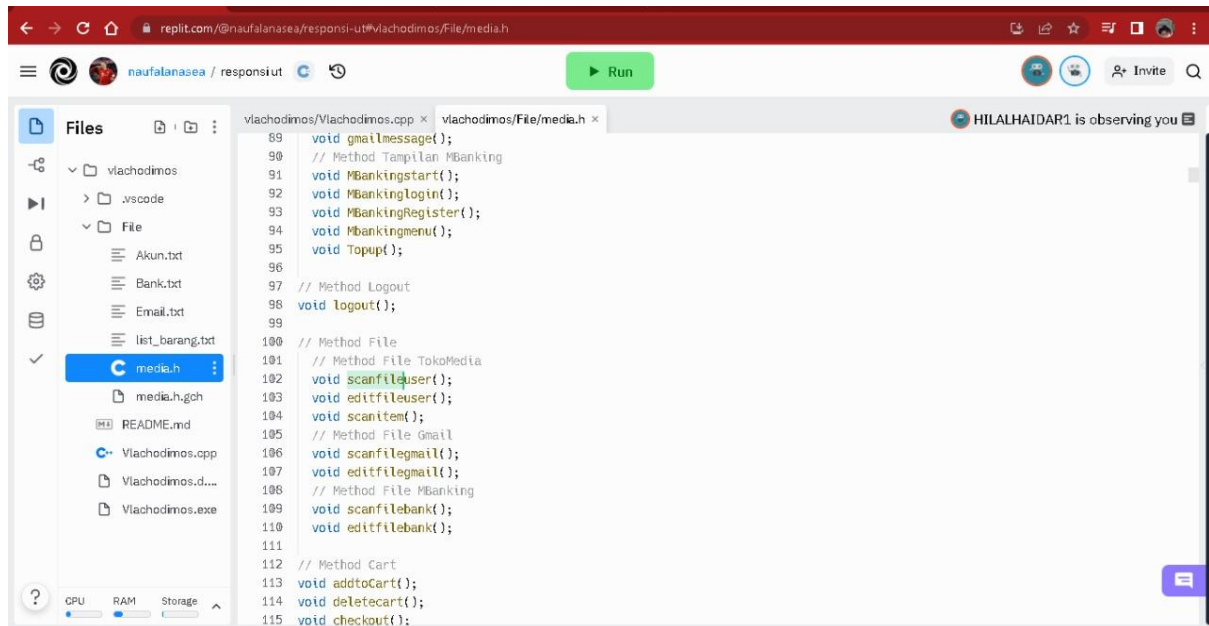


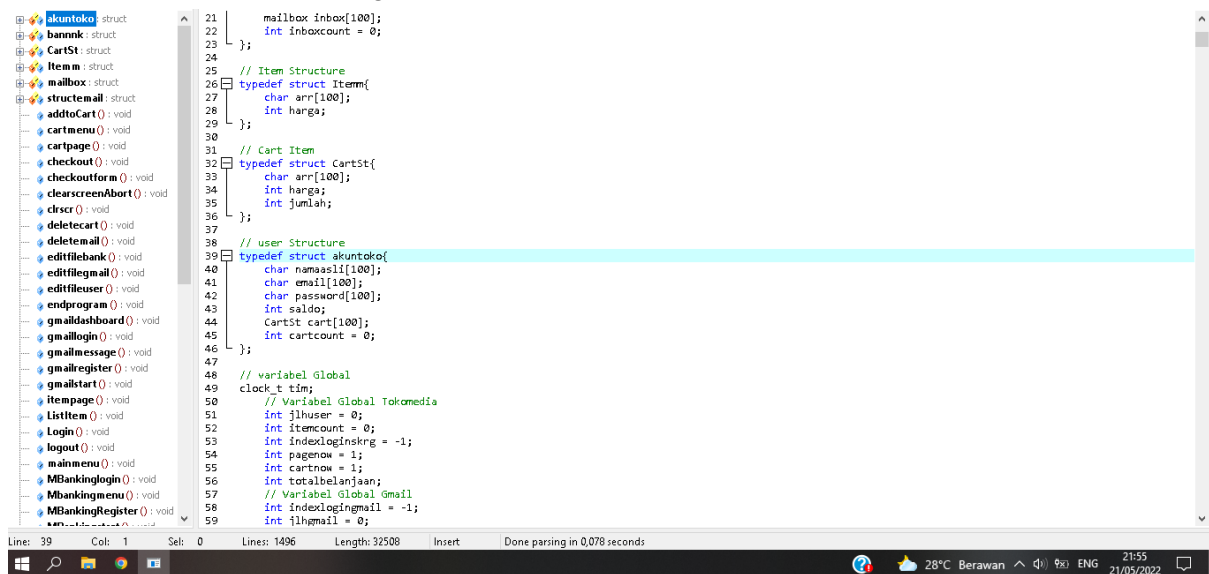
Screenshot replit :



link github untuk melihat kode lebih jelas secara keseluruhan

<https://github.com/naufalanasea/Prak-Alpro-Kelompok/tree/main/Responsi%20UTS>

Screenshot keseluruhan program



Project: Classes Debug

akuntoko: struct
bannnk: struct
CartSt: struct
Item: struct
mailbox: struct
structemail: struct
addtoCart(): void
cartmenu(): void
cartpage(): void
checkout(): void
checkoutform(): void
clearscreenAbort(): void
clrscr(): void
deletecart(): void
deletemail(): void
editfilebank(): void
editfilegmail(): void
editfileuser(): void
endprogram(): void
gmaildashboard(): void
gmaillogin(): void
gmailmessage(): void
gmailregister(): void
gmailstart(): void
itempage(): void
listitem(): void
login(): void
logout(): void
mainmenu(): void
MBankinglogin(): void
MBankingmenu(): void
MBankingRegister(): void

media.h

```
1 // NBanking Account Structure
2 typedef struct bannnk{
3     char username[100];
4     char email[100];
5     char pass[100];
6 };
7
8 // EmailBox Structure
9 typedef struct mailbox{
10     char pengirim[100];
11     char keterangan[100];
12     char waktu[100];
13 };
14
15 // Email Structure
16 typedef struct structemail{
17     char name[100];
18     char email[100];
19     char pass[100];
20     char alamat[100];
21     mailbox inbox[100];
22     int inboxcount = 0;
23 };
24
25 // Item Structure
26 typedef struct Itemm{
27     char arr[100];
28     int harga;
29 };
30
31 // Cart Item
32 typedef struct CartSt{
33     char arr[100];
34     int harga;
35     int jumlah;
36 };
37
38 // user Structure
39 typedef struct akuntoko{
```

Line: 2 Col: 1 Sel: 0 Lines: 1496 Length: 32508 Insert Done parsing in 0,078 seconds

28°C Berawan 21:55 21/05/2022

Project: Classes Debug

akuntoko: struct
bannnk: struct
CartSt: struct
Item: struct
mailbox: struct
structemail: struct
addtoCart(): void
cartmenu(): void
cartpage(): void
checkout(): void
checkoutform(): void
clearscreenAbort(): void
clrscr(): void
deletecart(): void
deletemail(): void
editfilebank(): void
editfilegmail(): void
editfileuser(): void
endprogram(): void
gmaildashboard(): void
gmaillogin(): void
gmailmessage(): void
gmailregister(): void
gmailstart(): void
itempage(): void
listitem(): void
login(): void
logout(): void
mainmenu(): void
MBankinglogin(): void
MBankingmenu(): void
MBankingRegister(): void

media.h

```
1 // NBanking Account Structure
2 typedef struct bannnk{
3     char username[100];
4     char email[100];
5     char pass[100];
6 };
7
8 // EmailBox Structure
9 typedef struct mailbox{
10     char pengirim[100];
11     char keterangan[100];
12     char waktu[100];
13 };
14
15 // Email Structure
16 typedef struct structemail{
17     char name[100];
18     char email[100];
19     char pass[100];
20     char alamat[100];
21     mailbox inbox[100];
22     int inboxcount = 0;
23 };
24
25 // Item Structure
26 typedef struct Itemm{
27     char arr[100];
28     int harga;
29 };
30
31 // Cart Item
32 typedef struct CartSt{
33     char arr[100];
34     int harga;
35     int jumlah;
36 };
37
38 // user Structure
39 typedef struct akuntoko{
```

Line: 32 Col: 1 Sel: 0 Lines: 1496 Length: 32508 Insert Done parsing in 0,078 seconds

28°C Berawan 21:55 21/05/2022

Project: Classes Debug

akuntoko: struct
bannnk: struct
CartSt: struct
Item: struct
mailbox: struct
structemail: struct
addtoCart(): void
cartmenu(): void
cartpage(): void
checkout(): void
checkoutform(): void
clearscreenAbort(): void
clrscr(): void
deletecart(): void
deletemail(): void
editfilebank(): void
editfilegmail(): void
editfileuser(): void
endprogram(): void
gmaildashboard(): void
gmaillogin(): void
gmailmessage(): void
gmailregister(): void
gmailstart(): void
itempage(): void
listitem(): void
login(): void
logout(): void
mainmenu(): void
MBankinglogin(): void
MBankingmenu(): void
MBankingRegister(): void

media.h

```
1 // NBanking Account Structure
2 typedef struct bannnk{
3     char username[100];
4     char email[100];
5     char pass[100];
6 };
7
8 // EmailBox Structure
9 typedef struct mailbox{
10     char pengirim[100];
11     char keterangan[100];
12     char waktu[100];
13 };
14
15 // Email Structure
16 typedef struct structemail{
17     char name[100];
18     char email[100];
19     char pass[100];
20     char alamat[100];
21     mailbox inbox[100];
22     int inboxcount = 0;
23 };
24
25 // Item Structure
26 typedef struct Itemm{
27     char arr[100];
28     int harga;
29 };
30
31 // Cart Item
32 typedef struct CartSt{
33     char arr[100];
34     int harga;
35     int jumlah;
36 };
37
38 // user Structure
39 typedef struct akuntoko{
```

Line: 26 Col: 1 Sel: 0 Lines: 1496 Length: 32508 Insert Done parsing in 0,078 seconds

28°C Berawan 21:55 21/05/2022

Project: Classes Debug

akuntoko: struct
bannnk: struct
CartSt: struct
Item m: struct
mailbox: struct
struct email: struct
addtoCart(): void
cartmenu(): void
cartpage(): void
checkout(): void
checkoutform(): void
clearscreenAbort(): void
clrscr(): void
deletcart(): void
deletemail(): void
editfilebank(): void
editfilegmail(): void
editfileuser(): void
endprogram(): void
gmaildashboard(): void
gmaillogin(): void
gmailmessage(): void
gmailregister(): void
gmailstart(): void
itempage(): void
listitem(): void
login(): void
logout(): void
mainmenu(): void
Mbankinglogin(): void
Mbankingmenu(): void
Mbankingregister(): void

media.h

```
1 // NBanking Account Structure
2 typedef struct bannnk{
3     char username[100];
4     char email[100];
5     char pass[100];
6 };
7
8 // EmailBox Structure
9 typedef struct mailbox{
10     char pengirim[100];
11     char keterangan[100];
12     char waktu[100];
13 };
14
15 // Email Structure
16 typedef struct structemail{
17     char name[100];
18     char email[100];
19     char pass[100];
20     char alamat[100];
21     mailbox inbox[100];
22     int inboxcount = 0;
23 };
24
25 // Item Structure
26 typedef struct Itemm{
27     char arr[100];
28     int harga;
29 };
30
31 // Cart Item
32 typedef struct CartSt{
33     char arr[100];
34     int harga;
35     int jumlah;
36 };
37
38 // user Structure
39 typedef struct akuntoko{
```

Line: 9 Col: 1 Sel: 0 Lines: 1496 Length: 32508 Insert Done parsing in 0,078 seconds

Project: Classes Debug

akuntoko: struct
bannnk: struct
CartSt: struct
Item m: struct
mailbox: struct
struct email: struct
addtoCart(): void
cartmenu(): void
cartpage(): void
checkout(): void
checkoutform(): void
clearscreenAbort(): void
clrscr(): void
deletcart(): void
deletemail(): void
editfilebank(): void
editfilegmail(): void
editfileuser(): void
endprogram(): void
gmaildashboard(): void
gmaillogin(): void
gmailmessage(): void
gmailregister(): void
gmailstart(): void
itempage(): void
listitem(): void
login(): void
logout(): void
mainmenu(): void
Mbankinglogin(): void
Mbankingmenu(): void
Mbankingregister(): void

media.h

```
1 // NBanking Account Structure
2 typedef struct bannnk{
3     char username[100];
4     char email[100];
5     char pass[100];
6 };
7
8 // EmailBox Structure
9 typedef struct mailbox{
10     char pengirim[100];
11     char keterangan[100];
12     char waktu[100];
13 };
14
15 // Email Structure
16 typedef struct structemail{
17     char name[100];
18     char email[100];
19     char pass[100];
20     char alamat[100];
21     mailbox inbox[100];
22     int inboxcount = 0;
23 };
24
25 // Item Structure
26 typedef struct Itemm{
27     char arr[100];
28     int harga;
29 };
30
31 // Cart Item
32 typedef struct CartSt{
33     char arr[100];
34     int harga;
35     int jumlah;
36 };
37
38 // user Structure
39 typedef struct akuntoko{
```

Line: 16 Col: 1 Sel: 0 Lines: 1496 Length: 32508 Insert Done parsing in 0,078 seconds

Project: Classes Debug

akuntoko: struct
bannnk: struct
CartSt: struct
Item m: struct
mailbox: struct
struct email: struct
addtoCart(): void
cartmenu(): void
cartpage(): void
checkout(): void
checkoutform(): void
clearscreenAbort(): void
clrscr(): void
deletcart(): void
deletemail(): void
editfilebank(): void
editfilegmail(): void
editfileuser(): void
endprogram(): void
gmaildashboard(): void
gmaillogin(): void
gmailmessage(): void
gmailregister(): void
gmailstart(): void
itempage(): void
listitem(): void
login(): void
logout(): void
mainmenu(): void
Mbankinglogin(): void
Mbankingmenu(): void
Mbankingregister(): void

media.h

```
360 fclose(fp);
361 }
362
363 void editfilebank(){
364     FILE *fp = fopen("File/Bank.txt", "w");
365
366     for(int i = 0; i < jlhbank; i++){
367         fprintf(fp, "%s\n", Mbank[i].username);
368         fprintf(fp, "%s\n", Mbank[i].email);
369         fprintf(fp, "%s\n", Mbank[i].pass);
370         if(i != jlhbank - 1){
371             fprintf(fp, "\n");
372         }
373     }
374     fclose(fp);
375 }
376
377 void addtoCart(){
378     int num;
379     printf("===== \n");
380
381     while(1){
382         printf("Add To Cart Item Number [%d-%d] : ", 1, itemcount);
383         scanf("%d", &num);
384
385         if(num == 0){
386             clearscreenAbort();
387             ListItem();
388         }
389         if(num < 1 || num > itemcount){
390             printf("Out Of Bounds\n");
391             continue;
392         }
393         else{
394             break;
395         }
396     }
397     int jumlah;
```

Line: 1378 Col: 1 Sel: 0 Lines: 1496 Length: 32508 Insert Done parsing in 0,078 seconds

The screenshot displays a C++ development environment. On the left, a project explorer lists various source files. The main window shows the code for the `cartmenu` function, which is responsible for managing the shopping cart. The function includes logic for clearing the cart, displaying the cart page, and processing transactions. The status bar at the bottom provides information about the current line (498), selection (0), the total line count (1496), file length (32508), and the time taken to parse the file (0.078 seconds).

The screenshot shows a C++ development environment with the following components:

- Project Explorer (Left):** Lists various classes and methods:
 - `akuntoko`: struct
 - `bannnk`: struct
 - `CartSt`: struct
 - `Item m`: struct
 - `mailbox`: struct
 - `structemail`: struct
 - `addtoCart`: void
 - `cartmenu`: void
 - `cartpage`: void
 - `checkout`: void
 - `checkoutform`: void
 - `clearscreenAbort`: void
 - `clscr`: void
 - `deletcart`: void
 - `deletemail`: void
 - `editfilebank`: void
 - `editfilegall`: void
 - `editfileuser`: void
 - `endprogram`: void
 - `gmaildashboard`: void
 - `gmaillogin`: void
 - `gmailmessage`: void
 - `gmailregister`: void
 - `gmailstart`: void
 - `itempage`: void
 - `ListItem`: void
 - `Login`: void
 - `logout`: void
 - `mainmenu`: void
 - `MBlankinglogin`: void
 - `Mbankingmenu`: void
 - `MBlankingRegister`: void
- main.cpp (Center):** Contains the following code:


```

127 }
128 }
129 else if(c == 48){
130     cartnow = 1;
131     mainmenu();
132 }
133 else if(c == 68 || c == 100){
134     deletcart();
135 }
136 else if(c == 84 || c == 116){
137     totalharge();
138 }
139 }
140 }
141 }
142 }
143 }
144 }
145 void cartpage(){
146     for(int i = ((cartnow - 1) * 10); i < (cartnow * 10); i++){
147         if(i >= pengguna[indexloginskrng].cartcount){
148             break;
149         }
150         int len = strlen(pengguna[indexloginskrng].cart[i].arr);
151         printf("%d\t%s", (i+1), pengguna[indexloginskrng].cart[i].arr);
152     }
153     if(len >= 40){
154         printf("\t\t");
155     }
156     else if(len >= 32){
157         printf("\t\t");
158     }
159     else if(len >= 24){
160         printf("\t\t\t");
161     }
162     else if(len >= 16){
163         printf("\t\t\t\t\t");
164     }
165 }

```
- media.h (Right):** Contains the following code:


```

127 }
128 }
129 else if(c == 48){
130     cartnow = 1;
131     mainmenu();
132 }
133 else if(c == 68 || c == 100){
134     deletcart();
135 }
136 else if(c == 84 || c == 116){
137     totalharge();
138 }
139 }
140 }
141 }
142 }
143 }
144 }
145 void cartpage(){
146     for(int i = ((cartnow - 1) * 10); i < (cartnow * 10); i++){
147         if(i >= pengguna[indexloginskrng].cartcount){
148             break;
149         }
150         int len = strlen(pengguna[indexloginskrng].cart[i].arr);
151         printf("%d\t%s", (i+1), pengguna[indexloginskrng].cart[i].arr);
152     }
153     if(len >= 40){
154         printf("\t\t");
155     }
156     else if(len >= 32){
157         printf("\t\t");
158     }
159     else if(len >= 24){
160         printf("\t\t\t");
161     }
162     else if(len >= 16){
163         printf("\t\t\t\t\t");
164     }
165 }

```

The screenshot displays a C++ development environment. On the left, the 'Project' pane shows a list of header files, including `akuntoko.h`, `bannnk.h`, `CartSt.h`, `Item.h`, `mailbox.h`, `structemail.h`, `addtoCart.h`, `cartmenu.h`, `cartpage.h`, `checkout.h`, `checkoutform.h`, `clearscreenAbort.h`, `clrscr.h`, `deletecart.h`, `deletemail.h`, `editfilebank.h`, `editfilemail.h`, `editfileuser.h`, `endprogram.h`, `gmaildashboard.h`, `gmaillogin.h`, `gmailmessage.h`, `gmailregister.h`, `gmailstart.h`, `itempage.h`, `listitem.h`, `login.h`, `logout.h`, `mainmenu.h`, `Mbankinglogin.h`, `Mbankingmenu.h`, and `Mbankingregister.h`. The main editor window shows the implementation of the `checkout` function in `checkout.h`. The code includes a `while` loop for input validation and a `void checkout()` function that checks the account balance and performs a transaction.

```

185 printf("=====\n");
186 printf("[1] Check-out\n");
187 printf("[2] Kembali\n");
188
189 while(1){
190     if(kbhit()){
191         char c = getch();
192         if(c == 49){
193             checkout();
194         }
195         else if(c == 50){
196             mainmenu();
197         }
198     }
199 }
200
201 void checkout(){
202     printf("=====\n");
203     if(pengguna[indexloginskrj].saldo < totalbelanjaan){
204         printf("SALDO KAHU KURANG!\n");
205         clrscr();
206         mainmenu();
207     }
208     pengguna[indexloginskrj].saldo -= totalbelanjaan;
209     printf("Berhasil Check Out\n");
210
211     int index;
212     for(int i = 0; i < jlhmail; i++){
213         if(strcmp(pengguna[indexloginskrj].email, gmail[i].email) == 0){
214             index = i;
215         }
216     }
217     time_t t;
218     time(&t);
219 }

```

The status bar at the bottom indicates the current line is 603, column is 1, and the selection is 0. It also shows the total lines in the file (1496), the length of the selection (32508), and the time taken to parse the file (0.078 seconds).

[illegible]

The screenshot displays a C++ development environment. On the left, a project explorer shows a list of files and folders, including 'akuntoko', 'banrnk', 'CartSt', 'Itemn', 'mailbox', 'structemail', 'addtoCart', 'cartmenu', 'carpage', 'checkout', 'checkouttotal', 'cleanscreenAbort', 'clrscr', 'deletecart', 'deletemail', 'editfilebank', 'editfilemail', 'editfileuser', 'endprogram', 'gmaildashboard', 'gmaillogin', 'gmailmessage', 'gmailregister', 'gmailstart', 'itempage', 'listitem', 'login', 'logout', 'mainmenu', 'mBankinglogin', 'mBankingmenu', and 'mBankingregister'. The code editor on the right shows the implementation of the 'cleanscreenAbort' function, which prints 'Aborting Operation' and 'Press Enter to Continue', then gets user input and prints the total price of items in the cart. The code is written in C++ and includes comments in Indonesian.

```

159     int total = 0;
160     for(int i = 0; i < pengguna[indexloginskr].cartcount; i++){
161         total += (pengguna[indexloginskr].cart[i].jumlah * pengguna[indexloginskr].cart[i].harga);
162     }
163     totalbelanjaan = total;
164     printf("Total Harga : Rp. %d\n", total);
165     clrscr();
166     cartmenu();
167 }
168
169 void totalglobal(){
170     int total = 0;
171     for(int i = 0; i < pengguna[indexloginskr].cartcount; i++){
172         total += (pengguna[indexloginskr].cart[i].jumlah * pengguna[indexloginskr].cart[i].harga);
173     }
174     totalbelanjaan = total;
175 }
176
177 void cleanscreenAbort(){
178     printf("Aborting Operation\n");
179     printf("Press Enter to Continue\n");
180     getchar();
181     getchar();
182 }
183
184 void endprogram(){
185     printf("\n-----\n");
186     ttm = clock() - tm;
187     double time_taken = ((double)tm)/CLOCKS_PER_SEC;
188     printf("Program digunakan selama %.1f detik, time_taken);
189     exit(0);
190 }
191
192 void clrscr(){
193     printf("Press Enter to Continue\n");
194     getchar();
195     getchar();
196 }

```

Project

Classes

Debug

akuntoko : struct

ban : struct

CartSI : struct

Item m : struct

mailbox : struct

struct email : struct

addToCart() : void

cartmenu() : void

cartpage() : void

checkout() : void

checkoutform() : void

clearscreenAbort() : void

clear() : void

deletecart() : void

deletemail() : void

editfilebank() : void

editfilemail() : void

editfileuser() : void

endprogram() : void

gmaildashboard() : void

gmaillogin() : void

gmailmessage() : void

gmailregister() : void

gmailstart() : void

itempage() : void

listitem() : void

Login() : void

logout() : void

mainmenu() : void

MBankinglogin() : void

MBankingmenu() : void

MBankingregister() : void

media.h

```
159 int total = 0;
160 for(int i = 0; i < pengguna[indexloginskr].cartcount; i++){
161     total += (pengguna[indexloginskr].cart[i].jumlah * pengguna[indexloginskr].cart[i].harga);
162 }
163 totalbelanjaan = total;
164 printf("Total Harga : Rp. %d\n", total);
165 clrscr();
166 cartmenu();
167 }
168
169 void totalglobal(){
170     int total = 0;
171     for(int i = 0; i < pengguna[indexloginskr].cartcount; i++){
172         total += (pengguna[indexloginskr].cart[i].jumlah * pengguna[indexloginskr].cart[i].harga);
173     }
174     totalbelanjaan = total;
175 }
176
177 void clearscreenAbort(){
178     printf("Aborting Operation\n");
179     printf("Press Enter to Continue\n");
180     getchar();
181     getchar();
182 }
183
184 void endprogram(){
185     printf("n-----\n");
186     tim = clock() - tim;
187     double time_taken = ((double)tim)/CLOCKS_PER_SEC;
188     printf("Program digunakan selama %.4f detik", time_taken);
189     exit(0);
190 }
191
192 void clrscr(){
193     printf("Press Enter to Continue\n");
194     getchar();
195     getchar();
196 }
```

Line: 1492

Col: 1

Sel: 0

Line: 1496

Length: 32508

Insert

Done parsing in 0,078 seconds

```
Project: Classes | Debug | Vlachodimos.cpp | media.h
akuntoko: struct
bannnk: struct
CartSt: struct
Item m: struct
mailbox: struct
structemail: struct
addtoCart(): void
cartmenu(): void
cartpage(): void
checkout(): void
checkoutform(): void
clearscreenAbort(): void
clrscr(): void
deletcart(): void
deletemail(): void
editfilebank(): void
editfilegmail(): void
editfileuser(): void
endprogram(): void
gmaildashboard(): void
gmaillogin(): void
gmailmessage(): void
gmailregister(): void
gmailstart(): void
itempage(): void
listitem(): void
login(): void
logout(): void
mainmenu(): void
Mbankinglogin(): void
Mbankingmenu(): void
Mbankingregister(): void
Mbankingregister(): void

107         printf("Tidak Valid!\n");
108         continue;
109     }
110     else{
111         break;
112     }
113 }
114 strcpy(pengguna[indexloginskr].cart[pengguna[indexloginskr].cartcount].arr, itemlist[num-1].arr);
115 pengguna[indexloginskr].cart[pengguna[indexloginskr].cartcount].harga = itemlist[num-1].harga;
116 pengguna[indexloginskr].cart[pengguna[indexloginskr].cartcount].jumlah = jumlah;
117 pengguna[indexloginskr].cartcount++;
118 printf("Barang Berhasil Ditambah\n");
119 clrscr();
120 listitem();
121 }
122 }
123 }
124
125 void deletcart(){
126     int num;
127     printf("=====n");
128
129     while(1){
130         printf("Delete Item Number [%d-%d] : ", 1, pengguna[indexloginskr].cartcount);
131         scanf("%d", &num);
132
133         if(num == 0){
134             clearscreenAbort();
135             listitem();
136         }
137         if(num < 1 && num > pengguna[indexloginskr].cartcount){
138             printf("Out Of Bounds\n");
139             continue;
140         }
141         else{
142             break;
143         }
144     }
145 }
```

```
Project: Classes | Debug | Vlachodimos.cpp | media.h
akuntoko: struct
bannnk: struct
CartSt: struct
Item m: struct
mailbox: struct
structemail: struct
addtoCart(): void
cartmenu(): void
cartpage(): void
checkout(): void
checkoutform(): void
clearscreenAbort(): void
clrscr(): void
deletcart(): void
deletemail(): void
editfilebank(): void
editfilegmail(): void
editfileuser(): void
endprogram(): void
gmaildashboard(): void
gmaillogin(): void
gmailmessage(): void
gmailregister(): void
gmailstart(): void
itempage(): void
listitem(): void
login(): void
logout(): void
mainmenu(): void
Mbankinglogin(): void
Mbankingmenu(): void
Mbankingregister(): void
Mbankingregister(): void

209         break;
210     }
211 }
212
213 time_t t;
214 time(&t);
215
216 strcpy(gmail[index].inbox[gmail[index].inboxcount].pengirim, "Vlachodimos Shop");
217 strcpy(gmail[index].inbox[gmail[index].inboxcount].keterangan, "Top-Up Saldo Berhasil Belanja yang Banyak ya bos! ");
218 strcpy(gmail[index].inbox[gmail[index].inboxcount].waktu, ctime(&t));
219 gmail[index].inboxcount++;
220 editfilegmail();
221 editfileuser();
222
223 clrscr();
224 Mbankingmenu();
225 }
226
227 void deletemail(){
228     int num;
229     printf("=====n");
230
231     while(1){
232         printf("Delete Mail Number [%d-%d] : ", 1, gmail[indexlogingmail].inboxcount);
233         scanf("%d", &num);
234
235         if(num == 0){
236             clearscreenAbort();
237             gmaildashboard();
238         }
239         if(num < 1 || num > gmail[indexlogingmail].inboxcount){
240             printf("Out Of Bounds\n");
241             continue;
242         }
243         else{
244             break;
245         }
246     }
247 }
```

```
Project: Classes | Debug | Vlachodimos.cpp | media.h
akuntoko: struct
bannnk: struct
CartSt: struct
Item m: struct
mailbox: struct
structemail: struct
addtoCart(): void
cartmenu(): void
cartpage(): void
checkout(): void
checkoutform(): void
clearscreenAbort(): void
clrscr(): void
deletcart(): void
deletemail(): void
editfilebank(): void
editfilegmail(): void
editfileuser(): void
endprogram(): void
gmaildashboard(): void
gmaillogin(): void
gmailmessage(): void
gmailregister(): void
gmailstart(): void
itempage(): void
listitem(): void
login(): void
logout(): void
mainmenu(): void
Mbankinglogin(): void
Mbankingmenu(): void
Mbankingregister(): void
Mbankingregister(): void

345     }
346 }
347
348 fclose(fp);
349 }
350
351 void scanfilebank(){
352     FILE *fp = fopen("File/Bank.txt", "r");
353
354     while(fscanf(fp, "%[^\n]c", &Nbank[jlhbak].username) != EOF){
355         fscanf(fp, "%s", &Nbank[jlhbak].email);
356         fscanf(fp, "%[^\n]c", &Nbank[jlhbak].pass);
357         jlhbak++;
358     }
359     fclose(fp);
360 }
361
362 void editfilebank(){
363     FILE *fp = fopen("File/Bank.txt", "w");
364
365     for(int i = 0; i < jlhbak; i++){
366         fprintf(fp, "%s\n", Nbank[i].username);
367         fprintf(fp, "%s\n", Nbank[i].email);
368         fprintf(fp, "%s", Nbank[i].pass);
369         if(i != jlhbak - 1){
370             fprintf(fp, "\n");
371         }
372     }
373     fclose(fp);
374 }
375
376 void addtoCart(){
377     int num;
378     printf("=====n");
379
380     while(1){
381         printf("Add To Cart Item Number [%d-%d] : ", 1, itemcount);
382     }
383 }
```


The screenshot shows a C++ IDE with a project named 'media.h'. The left sidebar lists the functions defined in the project, and the right pane shows the implementation of these functions in the 'media.h' file. The functions include user authentication, account management, and menu navigation.

```

102     printf("\n");
103     p++;
104     while(1);
105     pass[p] = '\0';
106
107     printf("\nAkun Berhasil Dibuat\n");
108     strcpy(gmail[jlghmail].name, name);
109     strcpy(gmail[jlghmail].email, email);
110     strcpy(gmail[jlghmail].pass, pass);
111
112     jlghmail++;
113
114     editfilegmail();
115     clrscr();
116     gmailstart();
117 }
118
119
120 void gmaildashboard(){
121     time_t t;
122     time(&t);
123
124     system("@cls||clear");
125     printf("=====*\n");
126     printf("                        GMAIL\n");
127     printf("=====*\n");
128     printf("%s\n", ctime(&t));
129     printf("Selamat Datang %s\n", gmail[indexlogingmail].name);
130     printf("-----*\n");
131     printf("No. \tPenginim\t\t\tKeterangan\t\t\tWaktu\n");
132     gmailmessage();
133     printf("=====*\n");
134     printf("(<) Sebelumnya\n");
135     printf("    [D = Hapus]                \n");
136
137     int a = (gmail[indexlogingmail].inboxcount % 20 == 0) ? gmail[indexlogingmail].inboxcount/20 : gmail[indexlogingmail].inboxcount/20 + 1;
138
139     while(1){
140

```

```

Project Classes Debug
akuntoko.h: struct
bannnk.h: struct
CartSt.h: struct
Item.h: struct
mailbox.h: struct
structemail.h: struct
addtoCart.h: void
cartmenu.h: void
cartpage.h: void
checkout.h: void
checkoutform.h: void
clearscreenAbort.h: void
clear.h: void
deletecart.h: void
deletemail.h: void
editfilebank.h: void
editfilemail.h: void
editfileuser.h: void
endprogram.h: void
gmaildashboard.h: void
gmaillogin.h: void
gmailmessage.h: void
gmailregister.h: void
gmailstart.h: void
itempage.h: void
Listitem.h: void
Login.h: void
logout.h: void
mainmenu.h: void
MBankinglogin.h: void
Mbankingmenu.h: void
MBankingRegister.h: void

Vlachodimos.cpp media.h
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381 void gmaillogin(){
382     char email[100], pass[100];
383     printf("-----\n");
384     int index;
385     while(1){
386         printf("Email : ");
387         scanf("%s", &email);
388         if(strcmp(email, "0") == 0){
389             clearscreenAbort();
390             gmailstart();
391         }
392         int flag = 0;
393         for(int i = 0; i < jlhgmail; i++){
394             if(strcasecmp(email, gmail[i].email) == 0){
395                 index = i;
396                 flag = 1;
397                 break;
398             }
399         }
400         if(flag){
401             break;
402         }
403     }
404 }
405 }
406 }
407 }
408 }
409 }
410 }
411 }
412 }
413 }
414 }
415 }
416 }
417 }
418 }
419 }
420 }
421 }
422 }
423 }
424 }
425 }
426 }
427 }
428 }
429 }
430 }
431 }
432 }
433 }
434 }
435 }
436 }
437 }
438 }
439 }
440 }
441 }
442 }
443 }
444 }
445 }
446 }
447 }
448 }
449 }
450 }
451 }
452 }
453 }
454 }
455 }
456 }
457 }
458 }
459 }
460 }
461 }
462 }
463 }
464 }
465 }
466 }
467 }
468 }
469 }
470 }
471 }
472 }
473 }
474 }
475 }
476 }
477 }
478 }
479 }
480 }
481 }
482 }
483 }
484 }
485 }
486 }
487 }
488 }
489 }
490 }
491 }
492 }
493 }
494 }
495 }
496 }
497 }
498 }
499 }
500 }
501 }
502 }
503 }
504 }
505 }
506 }
507 }
508 }
509 }
510 }
511 }
512 }
513 }
514 }
515 }
516 }
517 }
518 }
519 }
520 }
521 }
522 }
523 }
524 }
525 }
526 }
527 }
528 }
529 }
530 }
531 }
532 }
533 }
534 }
535 }
536 }
537 }
538 }
539 }
540 }
541 }
542 }
543 }
544 }
545 }
546 }
547 }
548 }
549 }
550 }
551 }
552 }
553 }
554 }
555 }
556 }
557 }
558 }
559 }
560 }
561 }
562 }
563 }
564 }
565 }
566 }
567 }
568 }
569 }
570 }
571 }
572 }
573 }
574 }
575 }
576 }
577 }
578 }
579 }
580 }
581 }
582 }
583 }
584 }
585 }
586 }
587 }
588 }
589 }
590 }
591 }
592 }
593 }
594 }
595 }
596 }
597 }
598 }
599 }
600 }
601 }
602 }
603 }
604 }
605 }
606 }
607 }
608 }
609 }
610 }
611 }
612 }
613 }
614 }
615 }
616 }
617 }
618 }
619 }
620 }
621 }
622 }
623 }
624 }
625 }
626 }
627 }
628 }
629 }
630 }
631 }
632 }
633 }
634 }
635 }
636 }
637 }
638 }
639 }
640 }
641 }
642 }
643 }
644 }
645 }
646 }
647 }
648 }
649 }
650 }
651 }
652 }
653 }
654 }
655 }
656 }
657 }
658 }
659 }
660 }
661 }
662 }
663 }
664 }
665 }
666 }
667 }
668 }
669 }
670 }
671 }
672 }
673 }
674 }
675 }
676 }
677 }
678 }
679 }
680 }
681 }
682 }
683 }
684 }
685 }
686 }
687 }
688 }
689 }
690 }
691 }
692 }
693 }
694 }
695 }
696 }
697 }
698 }
699 }
700 }
701 }
702 }
703 }
704 }
705 }
706 }
707 }
708 }
709 }
710 }
711 }
712 }
713 }
714 }
715 }
716 }
717 }
718 }
719 }
720 }
721 }
722 }
723 }
724 }
725 }
726 }
727 }
728 }
729 }
730 }
731 }
732 }
733 }
734 }
735 }
736 }
737 }
738 }
739 }
740 }
741 }
742 }
743 }
744 }
745 }
746 }
747 }
748 }
749 }
750 }
751 }
752 }
753 }
754 }
755 }
756 }
757 }
758 }
759 }
760 }
761 }
762 }
763 }
764 }
765 }
766 }
767 }
768 }
769 }
770 }
771 }
772 }
773 }
774 }
775 }
776 }
777 }
778 }
779 }
780 }
781 }
782 }
783 }
784 }
785 }
786 }
787 }
788 }
789 }
790 }
791 }
792 }
793 }
794 }
795 }
796 }
797 }
798 }
799 }
800 }
801 }
802 }
803 }
804 }
805 }
806 }
807 }
808 }
809 }
810 }
811 }
812 }
813 }
814 }
815 }
816 }
817 }
818 }
819 }
820 }
821 }
822 }
823 }
824 }
825 }
826 }
827 }
828 }
829 }
830 }
831 }
832 }
833 }
834 }
835 }
836 }
837 }
838 }
839 }
840 }
841 }
842 }
843 }
844 }
845 }
846 }
847 }
848 }
849 }
850 }
851 }
852 }
853 }
854 }
855 }
856 }
857 }
858 }
859 }
860 }
861 }
862 }
863 }
864 }
865 }
866 }
867 }
868 }
869 }
870 }
871 }
872 }
873 }
874 }
875 }
876 }
877 }
878 }
879 }
880 }
881 }
882 }
883 }
884 }
885 }
886 }
887 }
888 }
889 }
890 }
891 }
892 }
893 }
894 }
895 }
896 }
897 }
898 }
899 }
900 }
901 }
902 }
903 }
904 }
905 }
906 }
907 }
908 }
909 }
910 }
911 }
912 }
913 }
914 }
915 }
916 }
917 }
918 }
919 }
920 }
921 }
922 }
923 }
924 }
925 }
926 }
927 }
928 }
929 }
930 }
931 }
932 }
933 }
934 }
935 }
936 }
937 }
938 }
939 }
940 }
941 }
942 }
943 }
944 }
945 }
946 }
947 }
948 }
949 }
950 }
951 }
952 }
953 }
954 }
955 }
956 }
957 }
958 }
959 }
960 }
961 }
962 }
963 }
964 }
965 }
966 }
967 }
968 }
969 }
970 }
971 }
972 }
973 }
974 }
975 }
976 }
977 }
978 }
979 }
980 }
981 }
982 }
983 }
984 }
985 }
986 }
987 }
988 }
989 }
990 }
991 }
992 }
993 }
994 }
995 }
996 }
997 }
998 }
999 }
1000 }
1001 }
1002 }
1003 }
1004 }
1005 }
1006 }
1007 }
1008 }
1009 }
1010 }
1011 }
1012 }
1013 }
1014 }
1015 }
1016 }
1017 }
1018 }
1019 }
1020 }
1021 }
1022 }
1023 }
1024 }
1025 }
1026 }
1027 }
1028 }
1029 }
1030 }
1031 }
1032 }
1033 }
1034 }
1035 }
1036 }
1037 }
1038 }
1039 }
1040 }
1041 }
1042 }
1043 }
1044 }
1045 }
1046 }
1047 }
1048 }
1049
```

Project Explorer (Left):

- Project
- Classes
- Debug
- akuntoko : struct
- bannnk : struct
- CartST : struct
- Item m : struct
- mailbox : struct
- structemail : struct
- addtoCart() : void
- cartmenu() : void
- cartpage() : void
- checkout() : void
- checkoutform() : void
- clearscreenAbort() : void
- clrscr() : void
- deletecart() : void
- deletemail() : void
- editfilebank() : void
- editfilemail() : void
- editfileuser() : void
- endprogram() : void
- gmaildashboard() : void
- gmaillogin() : void
- gmailmessage() : void
- gmailregister() : void
- gmailstart() : void
- itempage() : void
- Listitem() : void
- Login() : void
- logout() : void
- mainmenu() : void
- MBankinglogin() : void
- Mbankingmenu() : void
- MBankingRegister() : void

Code Editor (Right):

```

153         gmailpagenow++;
154         gmaildashboard();
155     }
156 }
157 else if(c == 48){
158     gmailpagenow = 1;
159     gmailstart();
160 }
161 else if(c == 68 || c == 100){
162     deletemail();
163 }
164 }
165 }
166 }
167 }
168 }
169 }
170 }
171 void gmailmessage(){
172 }
173 for(int i = ((gmailpagenow - 1) * 20); i < (gmailpagenow * 20); i++){
174     if(i >= gmail[indexloggingmail].inboxaccount){
175         break;
176     }
177     int len = strlen(gmail[indexloggingmail].inbox[i].keterangan);
178     printf("%d\t%s\t", (i+1), gmail[indexloggingmail].inbox[i].pengirim);
179     printf("%s", gmail[indexloggingmail].inbox[i].keterangan);
180 }
181 if(len >= 40){
182     printf("\t\t");
183 }
184 else if(len >= 32){
185     printf("\t\t\t");
186 }
187 else if(len >= 24){
188     printf("\t\t\t\t");
189 }
190 else if(len >= 16){
191     printf("\t\t\t\t\t");
192 }

```

Status Bar (Bottom):

Line: 871 Col: 1 Sel: 0 Line: 1496 Length: 32508 Insert Done parsing in 0,078 seconds 21:58 21/08/2022


```
Project Classes Debug Vlachodimos.cpp media.h
akuntoko : struct
banrnk : struct
CartSt : struct
Item m : struct
mailbox : struct
structemal : struct
addtoCart() : void
cartmenu() : void
cartpage() : void
checkout() : void
clearscreenAbort() : void
clrscr() : void
deletcart() : void
deletemail() : void
editfilebank() : void
editfilegmail() : void
editfileuser() : void
endprogram() : void
gmaildashboard() : void
gmaillogin() : void
gmailmessage() : void
gmailregister() : void
gmailstart() : void
itempage() : void
ListItem() : void
Login() : void
Logout() : void
mainmenu() : void
MBankinglogin() : void
MBankingmenu() : void
MBankingRegister() : void

731         continue;
732     }
733     printf("***");
734     p++;
735 }while(1);
736 pass[p]='\0';
737 if(strcmp(pass,gmail[index].pass) == 0){
738     break;
739 }
740 printf("\nPassword Salah!\n");
741 }
742 indexloginmail = index;
743 printf("\nLogin Berhasil\n");
744 clrscr();
745 gmaildashboard();
746 }
747
748 void gmailregister(){
749
750     char name[100],email[100], pass[100];
751     printf("-----\n");
752     printf("Nama Lengkap:t: ");
753     scanf("%s\n",&name);
754     while(1){
755         printf("Email\t\t: ");
756         scanf("%s", &email);
757         if(strcmp(email,"0") == 0){
758             clearscreenAbort();
759             gmailstart();
760         }
761         int flag = 0;
762         for(int i = 0; i < jlhgmail; i++){
763             if(strcasecmp(email,gmail[i].email) == 0){
764                 flag = 1;
765             }
766         }
767         if(flag){
768             printf("Email Sudah Dipakai!\n");
769         }
770     }
771 }
```

```
Project Classes Debug Vlachodimos.cpp media.h
akuntoko : struct
banrnk : struct
CartSt : struct
Item m : struct
mailbox : struct
structemal : struct
addtoCart() : void
cartmenu() : void
cartpage() : void
checkout() : void
clearscreenAbort() : void
clrscr() : void
deletcart() : void
deletemail() : void
editfilebank() : void
editfilegmail() : void
editfileuser() : void
endprogram() : void
gmaildashboard() : void
gmaillogin() : void
gmailmessage() : void
gmailregister() : void
gmailstart() : void
itempage() : void
ListItem() : void
Login() : void
Logout() : void
mainmenu() : void
MBankinglogin() : void
MBankingmenu() : void
MBankingRegister() : void

521     time t t;
522     time(&t);
523
524     strcpy(gmail[index].inbox[gmail[index].inboxcount].pengirim, "vlachodimosshop.co.id");
525     strcpy(gmail[index].inbox[gmail[index].inboxcount].keterangan, "Transaksi Berhasil");
526     strcpy(gmail[index].inbox[gmail[index].inboxcount].waktu, ctime(&t));
527
528     gmail[index].inboxcount++;
529
530     pengguna[indexloginmail].cartcount = 0;
531
532     editfilegmail();
533     editfileuser();
534
535     clrscr();
536     mainmenu();
537 }
538
539 void gmailstart(){
540     time t t;
541     time(&t);
542
543     system("@cls||clear");
544     printf("=====\\n");
545     printf("=====GNAIL=====\\n");
546     printf("=====\\n");
547     printf("%s\\n",ctime(&t));
548     printf("-----\\n");
549     printf("[1] Login\\n");
550     printf("[2] Daftar\\n");
551     printf("[3] Kembali\\n");
552     printf("[0] Exit\\n");
553     printf("-----\\n");
554     printf(">>>");
555
556     while(1){
557         if(kbhit()){
558             char c = getch();
559         }
560     }
561 }
```

```
Project Classes Debug Vlachodimos.cpp media.h
akuntoko : struct
banrnk : struct
CartSt : struct
Item m : struct
mailbox : struct
structemal : struct
addtoCart() : void
cartmenu() : void
cartpage() : void
checkout() : void
clearscreenAbort() : void
clrscr() : void
deletcart() : void
deletemail() : void
editfilebank() : void
editfilegmail() : void
editfileuser() : void
endprogram() : void
gmaildashboard() : void
gmaillogin() : void
gmailmessage() : void
gmailregister() : void
gmailstart() : void
itempage() : void
ListItem() : void
Login() : void
Logout() : void
mainmenu() : void
MBankinglogin() : void
MBankingmenu() : void
MBankingRegister() : void

151     else if(c == 77){
152         if(pagenow != a){
153             pagenow++;
154             ListItem();
155         }
156     }
157     else if(c == 48){
158         pagenow = 1;
159         mainmenu();
160     }
161     else if(c == 66 || c == 98){
162         addtoCart();
163     }
164 }
165
166 void itempage(){
167
168     for(int i = (pagenow - 1) * 10; i < (pagenow * 10); i++){
169         if(i >= itemcount){
170             break;
171         }
172         int len = strlen(itemlist[i].arr);
173         printf("%d\\t\\t", (i+1), itemlist[i].arr);
174
175         if(len >= 40){
176             printf("\\t");
177         }
178         else if(len >= 32){
179             printf("\\t\\t");
180         }
181         else if(len >= 24){
182             printf("\\t\\t\\t");
183         }
184         else if(len >= 16){
185             printf("\\t\\t\\t\\t");
186         }
187     }
188 }
189 }
```

```
Project Classes Debug Vlachodimos.cpp media.h
akuntoko : struct
bannnk : struct
CartIS : struct
Item m : struct
mailbox : struct
struct email : struct
addtoCart() : void
cartmenu() : void
carpage() : void
checkout() : void
checkoutform() : void
clearscreenabort() : void
clrscr() : void
deletecart() : void
deletemail() : void
editfilebank() : void
editfilemail() : void
editfileuser() : void
endprogram() : void
gmaildashboard() : void
gmaillogin() : void
gmailmessage() : void
gmailregister() : void
gmailstart() : void
itempage() : void
ListItem() : void
Login() : void
logout() : void
mainmenu() : void
Mbankinglogin() : void
Mbankingmenu() : void
MbankingRegister() : void
main() : void

146 }
147
148 for(int i = num - 1; i < gmail[indexloggingmail].inboxcount - 1; i++){
149     strcpy(gmail[indexloggingmail].inbox[i].pengirim, gmail[indexloggingmail].inbox[i + 1].pengirim);
150     strcpy(gmail[indexloggingmail].inbox[i].keterangan, gmail[indexloggingmail].inbox[i + 1].keterangan);
151     strcpy(gmail[indexloggingmail].inbox[i].waktu, gmail[indexloggingmail].inbox[i + 1].waktu);
152 }
153
154 gmail[indexloggingmail].inboxcount--;
155
156 editfilegmail();
157
158 printf("Delete Berhasil\n");
159 clrscr();
160 gmaildashboard();
161 }
162
163
164 void logout(){
165     indexloginskrng = -1;
166     pagenow = 1;
167     cartnow = 1;
168     printf("Logging Out\n");
169     clrscr();
170     start1();
171 }
172
173 void scanfileuser(){
174     FILE *fp = fopen("File/Akun.txt", "r");
175
176     while(fscanf(fp, "%s\n%s", &pengguna[jluser].namaasli) != EOF){
177         fscanf(fp, "%s", &pengguna[jluser].email);
178         fscanf(fp, "%s", &pengguna[jluser].password);
179         fscanf(fp, "%s", &pengguna[jluser].saldo);
180         jluser++;
181     }
182
183     fclose(fp);
184 }
```

```

363         continue;
364     }
365     printf("***");
366     p++;
367 }while(1);
368 pass[p]='\0';
369
370 printf("\nAkun Sudah Berhasil Terdaftar\n");
371 strcpy(pengguna[jlhuser].namaasli,name);
372 strcpy(pengguna[jlhuser].email,email);
373 strcpy(pengguna[jlhuser].password,pass);
374 pengguna[jlhuser].saldo = 0;
375 jlhuser++;
376 editfileuser();
377 clrscr();
378 start1();
379 }
380
381 void mainmenu(){
382     time_t t;
383     time(&t);
384
385     tim = clock();
386     system("@cls|clear");
387     printf("=====*\n");
388     printf("VLACHODIMOS SHOP\n");
389     printf("=====*\n");
390     printf("Se\n",ctime(&t));
391     printf("Selamat datang %s\n", pengguna[indexloginskrng].namaasli);
392     printf("Saldo Anda : Rp %d\n", pengguna[indexloginskrng].saldo);
393     printf("-----*\n");
394     printf("[1] Daftar item\n");
395     printf("[2] Keranjang Belanja\n");
396     printf("[3] Check-Out\n");
397     printf("[4] Kembali\n");
398     printf("[0] Logout\n");
399     printf("-----*\n");
400     printf(">>>>");
401

```

The screenshot shows a C++ IDE with a project named 'Vladimir' and a file named 'media.h'. The code defines a menu system with options like 'mainmenu', 'MBankinglogin', 'MBankingmenu', 'MBankingRegister', 'MBankingstart', 'Register', 'scanfilebank', 'scanfilemail', 'scanfileuser', 'scanitem', 'start1', 'tambahsaldo', 'Topup', 'totalglobal', 'totalharga', 'website', 'cartnow', 'gmail', 'gmailpagenow', 'indexloginbank', 'indexloginmail', 'indexloginkrg', 'itemcount', 'itemlist', 'jlhbank', 'jlhgmall', 'jlhuser', 'Mbank', 'pagenow', 'pengguna', 'tim', and 'totalbelanjaan'. The 'MBankinglogin' function is highlighted, showing a login loop with username and password validation.

```
Project Classes Debug Vlachodimos.cpp media.h
mainmenu() : void
Mbankinglogin() : void
Mbankingmenu() : void
MbankingRegister() : void
Mbankingstart() : void
Register() : void
scanflebank() : void
scanflegmail() : void
scanfleuser() : void
scanitem() : void
start() : void
tambahsaldo(rt saldo) : void
Topup() : void
totalglobal() : void
totalharga() : void
website() : void
cartnow : int
gmail[100] : structemail
gmailpagenow : int
indexloginbank : int
indexloggingmail : int
indexloginskrg : int
itemcount : int
itemlist[200] : Itemn
jlhbank : int
jlhgmail : int
jlhuser : int
Mbank[100] : bannik
pagenow : int
pengguna[100] : akuntoko
tim : dock_t
totalbelanjaan : int

if(((pass[p] == 'A' && pass[p] != 'Z') || (pass[p] == 'a' && pass[p] != 'z') || (pass[p] == '0' && pass[p] != '9')) == 0){
    continue;
}
printf("***");
p++;
}while(1);
pass[p]='\\0';

printf("\nKun Berhasil Dibuat\n");
strcpy(Nbank[jlhbak].username, username);
strcpy(Nbank[jlhbak].email, email);
strcpy(Nbank[jlhbak].pass, pass);
jlhbak++;
editfilebank();
clrscr();
Mbankingstart();

void Mbankingmenu(){
    time_t t;
    time(&t);
    char name[100];
    for(int i = 0; i < jlhgmail; i++){
        if(strcmp(Nbank[indexloginbank].email, gmail[i].email) == 0){
            strcpy(name, gmail[i].name);
        }
    }

    system("@cls||clear");
    printf("=====\\n");
    printf("          TOPIUP SALDO          \\n");
    printf("=====\\n");
    printf("%s\\n",ctime(&t));
    printf("Selamat Datang %s\\n", name);
    printf("-----\\n");
    printf("[1] Top-up Saldo Vlachodimos Shop\\n");
    printf("[0] Logout\\n");
    printf("-----\\n");
    printf(">>>>");
```

```
Project Classes Debug Vlachodimos.cpp media.h
mainmenu() : void
MBankinglogin() : void
MBankingmenu() : void
MBankingRegister() : void
Register() : void
scanflebank() : void
scanflegmail() : void
scanfleuser() : void
scanfitem() : void
start1() : void
tambahsaldo(int saldo) : void
Topup() : void
totalglobal() : void
totalharga() : void
website() : void
cartnow : int
gmail[100] : structemail
gmailpagenow : int
indexloginbank : int
indexloginmail : int
indexloginskr : int
itemcount : int
itemlist[200] : Itemm
jlhbank : int
jlhgmall : int
jlhuser : int
Mbank[100] : bannnk
pagenow : int
pengguna[100] : akuntoko
tim : clock_t
totalbelanjaan : int

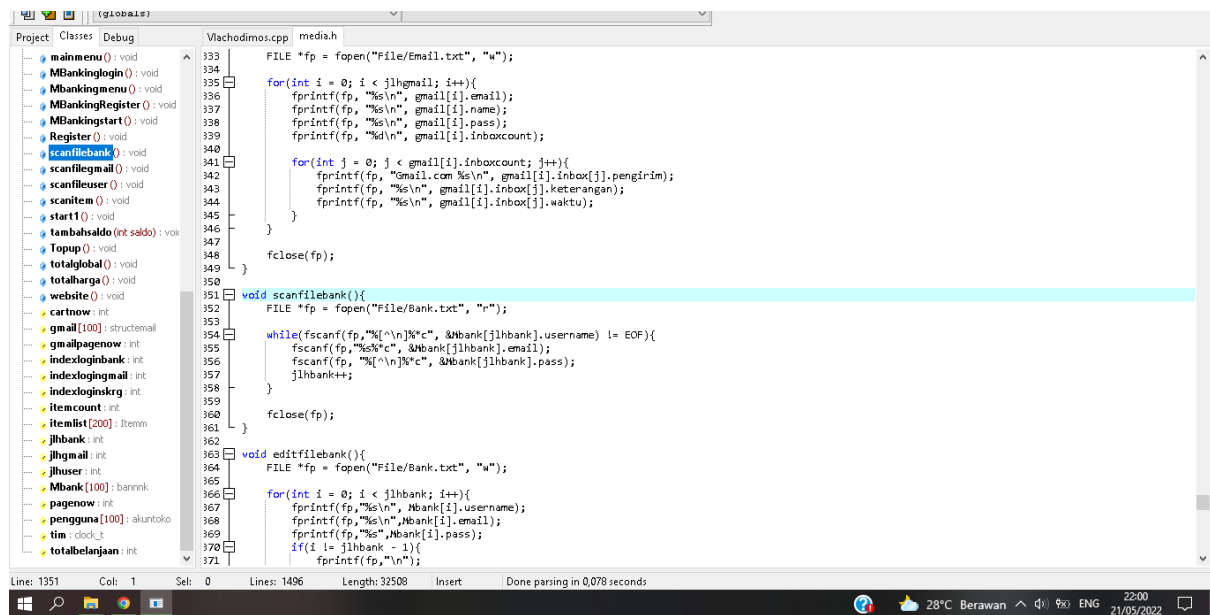
394         continue;
395     }
396     printf("***");
397     p++;
398     }while(1);
399     pass[p]='\0';
400     if(strcmp(pass,Mbank[index].pass) == 0){
401         break;
402     }
403     printf("\nPassword Salah!\n");
404 }
405
406 indexloginbank = index;
407 printf("\nLogin Berhasil\n");
408 clrscr();
409 Mbankingmenu();
410 }
411
412 void MBankingRegister(){
413
414     char username[100],email[100], pass[100];
415     printf("-----\n");
416     while(1){
417         printf("Username\t: ");
418         scanf("%s\n",&username);
419         getchar();
420         if(strcmp(username,"0") == 0){
421             clrscr();
422             MBankingstart();
423         }
424         int flag = 0;
425         for(int i = 0; i < jlhbank; i++){
426             if(strcmp(username,Mbank[i].username) == 0){
427                 flag = 1;
428                 break;
429             }
430         }
431         if(flag){
432             continue;
433         }
434     }
435 }
```

```
Project Classes Debug Vlachodimos.cpp media.h
mainmenu() : void
MBankinglogin() : void
MBankingmenu() : void
MBankingRegister() : void
Register() : void
scanflebank() : void
scanflegmail() : void
scanfleuser() : void
scanfitem() : void
start1() : void
tambahsaldo(int saldo) : void
Topup() : void
totalglobal() : void
totalharga() : void
website() : void
cartnow : int
gmail[100] : structemail
gmailpagenow : int
indexloginbank : int
indexloginmail : int
indexloginskr : int
itemcount : int
itemlist[200] : Itemm
jlhbank : int
jlhgmall : int
jlhuser : int
Mbank[100] : bannnk
pagenow : int
pengguna[100] : akuntoko
tim : clock_t
totalbelanjaan : int

383     }
384     else if(len >= 32){
385         printf("\t\t");
386     }
387     else if(len >= 24){
388         printf("\t\t\t");
389     }
390     else if(len >= 16){
391         printf("\t\t\t\t");
392     }
393     else if(len >= 8){
394         printf("\t\t\t\t\t");
395     }
396     printf("%s\n", gmail[indexloginmail].inbox[i].waktu);
397 }
398
399 void MBankingstart(){
400     time_t t;
401     time(&t);
402
403     system("@cls||clear");
404     printf("-----\n");
405     printf("===== TOP UP SALDO =====\n");
406     printf("-----\n");
407     printf("%s\n",ctime(&t));
408     printf("-----\n");
409     printf("1) Login\n");
410     printf("2) Daftar\n");
411     printf("3) Kembali\n");
412     printf("4) Exit\n");
413     printf("-----\n");
414     printf(">>>");
415
416     while(1){
417         if(kbhit()){
418             char c = getch();
419         }
420     }
421 }
```

```
Project Classes Debug Vlachodimos.cpp media.h
mainmenu() : void
MBankinglogin() : void
MBankingmenu() : void
MBankingRegister() : void
Register() : void
scanflebank() : void
scanflegmail() : void
scanfleuser() : void
scanfitem() : void
start1() : void
tambahsaldo(int saldo) : void
Topup() : void
totalglobal() : void
totalharga() : void
website() : void
cartnow : int
gmail[100] : structemail
gmailpagenow : int
indexloginbank : int
indexloginmail : int
indexloginskr : int
itemcount : int
itemlist[200] : Itemm
jlhbank : int
jlhgmall : int
jlhuser : int
Mbank[100] : bannnk
pagenow : int
pengguna[100] : akuntoko
tim : clock_t
totalbelanjaan : int

387         continue;
388     }
389     printf("***");
390     p++;
391     }while(1);
392     pass[p]='\0';
393     if(strcmp(pass,pengguna[index].password) == 0){
394         break;
395     }
396     printf("\nPasswordnya Salah Nih! Ulang lagi coba\n");
397 }
398
399 indexloginskr = index;
400 printf("\nLogin Berhasil \n");
401 clrscr();
402 mainmenu();
403 }
404
405 void Register(){
406     char name[100],email[100], pass[100];
407     printf("-----\n");
408     printf("Nama Lengkap\t: ");
409     scanf("%s\n",&name);
410     while(1){
411         printf("Email\t\t: ");
412         scanf("%s", &email);
413         if(strcmp(email,"0") == 0){
414             clrscr();
415             start1();
416         }
417         int flag = 0;
418         for(int i = 0; i < jlhgmall; i++){
419             if(strcmp(email,gmail[i].email) == 0){
420                 flag = 1;
421                 break;
422             }
423         }
424         if(flag == 0){
425             printf("Email Tidak Terdaftar!\n");
426             continue;
427         }
428     }
429 }
```



```
(globals)
Project: Classes: Debug: Vlachodimos.cpp media.h
mainmenu(): void
MBankinglogin(): void
MBankingmenu(): void
MBankingRegister(): void
MBankingstart(): void
Register(): void
scanfilebank(): void
scanfilegmail(): void
scanfileuser(): void
scanitem(): void
start1(): void
tambahsaldo(int saldo): void
Topup(): void
totalglobal(): void
totalharga(): void
website(): void
cartnow: int
gmail[100]: struct email
gmailpagenow: int
indexloginbank: int
indexlogingmail: int
indexloginskr: int
itemcount: int
itemlist[200]: Itemm
jlhbank: int
jlhgmail: int
jlhuser: int
Mbank[100]: banrnnk
pagenow: int
pengguna[100]: akuntoko
tim: clock_t
totalbelanjaan: int
294 if(i != jlhuser - 1){
295     fprintf(fp, "\n");
296 }
297 }
298 fclose(fp);
299 }
300
301 void scanitem(){
302     FILE *fp = fopen("File/list_barang.txt", "r");
303     while(fscanf(fp, "%[^\\n]c", &itemlist[itemcount].arr) != EOF){
304         fscanf(fp, "%d%c", &itemlist[itemcount].harga);
305         itemcount++;
306     }
307     fclose(fp);
308 }
309
310 void scanfilegmail(){
311     FILE *fp = fopen("File/Email.txt", "r");
312     while(fscanf(fp, "%s", &gmail[jlhgmail].email) != EOF){
313         fscanf(fp, "%[^\\n]c", &gmail[jlhgmail].name);
314         fscanf(fp, "%[^\\n]c", &gmail[jlhgmail].pass);
315         fscanf(fp, "%d", &gmail[jlhgmail].inboxcount);
316         for(int i = 0; i < gmail[jlhgmail].inboxcount; i++){
317             fscanf(fp, "Gmail.com %s", &gmail[jlhgmail].inbox[i].pengirim);
318             fscanf(fp, "%[^\\n]c", &gmail[jlhgmail].inbox[i].keterangan);
319             fscanf(fp, "%[^\\n]c", &gmail[jlhgmail].inbox[i].waktu);
320         }
321         jlhgmail++;
322     }
323     fclose(fp);
324 }
325 void editfilegmail(){
326 }
```

```
Project: Classes: Debug: Vlachodimos.cpp media.h
mainmenu(): void
MBankinglogin(): void
MBankingmenu(): void
MBankingRegister(): void
MBankingstart(): void
Register(): void
scanfilebank(): void
scanfilegmail(): void
scanfileuser(): void
scanitem(): void
start1(): void
tambahsaldo(int saldo): void
Topup(): void
totalglobal(): void
totalharga(): void
website(): void
cartnow: int
gmail[100]: struct email
gmailpagenow: int
indexloginbank: int
indexlogingmail: int
indexloginskr: int
itemcount: int
itemlist[200]: Itemm
jlhbank: int
jlhgmail: int
jlhuser: int
Mbank[100]: banrnnk
pagenow: int
pengguna[100]: akuntoko
tim: clock_t
totalbelanjaan: int
255 editfilegmail();
256
257 printf("Delete Berhasil\n");
258 clrscr();
259 gmaildashboard();
260 }
261 }
262
263 void logout(){
264     indexloginskr = -1;
265     pagenow = 1;
266     cartnow = 1;
267     printf("Logging Out\n");
268     clrscr();
269     start1();
270 }
271
272 void scanfileuser(){
273     FILE *fp = fopen("File/Akun.txt", "r");
274     while(fscanf(fp, "%[^\\n]c", &pengguna[jlhuser].namaasli) != EOF){
275         fscanf(fp, "%s", &pengguna[jlhuser].email);
276         fscanf(fp, "%[^\\n]c", &pengguna[jlhuser].password);
277         fscanf(fp, "%d", &pengguna[jlhuser].saldo);
278         jlhuser++;
279     }
280     fclose(fp);
281 }
282 void editfileuser(){
283     FILE *fp = fopen("File/Akun.txt", "w");
284     for(int i = 0; i < jlhuser; i++){
285         fprintf(fp, "%s\n", pengguna[i].namaasli);
286         fprintf(fp, "%s\n", pengguna[i].email);
287         fprintf(fp, "%s\n", pengguna[i].password);
288         fprintf(fp, "%d", pengguna[i].saldo);
289     }
290 }
```

```
Project Classes Debug Vlachodimos.cpp media.h
mainmenu() : void
MBankinglogin() : void
MBankingmenu() : void
MBankingRegister() : void
MBankingstart() : void
Register() : void
scanflebank() : void
scanflegmail() : void
scanfleuser() : void
scanfitem() : void
start1() : void
tambahsaldo(int saldo) : void
Topup() : void
totalglobal() : void
totalharga() : void
website() : void
cartnow : int
gmail[100] : structemail
gmailpagenow : int
indexloginbank : int
indexloginmail : int
indexloginskr : int
itemcount : int
itemlist[200] : Itemm
jlbank : int
jlhmail : int
jlhuser : int
Mbank[100] : bannrk
pagenow : int
pengguna[100] : akuntoko
tim : clock_t
totalbelanjaan : int

283 }
284 }
285 }
286 void editfileuser(){
287 FILE *fp = fopen("File/Akun.txt", "w");
288
289 for(int i = 0; i < jlhuser; i++){
290     fprintf(fp, "%s\n", pengguna[i].namassai);
291     fprintf(fp, "%s\n", pengguna[i].email);
292     fprintf(fp, "%s\n", pengguna[i].password);
293     fprintf(fp, "%d", pengguna[i].saldo);
294     if(i != jlhuser - 1){
295         fprintf(fp, "\n");
296     }
297 }
298 fclose(fp);
299 }
300
301 void scanfitem(){
302 FILE *fp = fopen("File/list_barang.txt", "r");
303
304 while(fscanf(fp, "%[^\\n]%c", &itemlist[itemcount].arr) != EOF){
305     fscanf(fp, "%d%c", &itemlist[itemcount].harga);
306     itemcount++;
307 }
308
309 fclose(fp);
310 }
311
312 void scanflegmail(){
313 FILE *fp = fopen("File/Email.txt", "r");
314
315 while(fscanf(fp, "%s%c", &gmail[jlhgmail].email) != EOF){
316     fscanf(fp, "%[^\\n]%c", &gmail[jlhgmail].name);
317     fscanf(fp, "%[^\\n]", &gmail[jlhgmail].pass);
318     fscanf(fp, "%d%c", &gmail[jlhgmail].inboxcount);
319     for(int i = 0; i < gmail[jlhgmail].inboxcount; i++){
320         fscanf(fp, "Gmail.com %s%c", &gmail[jlhgmail].inbox[i].pengirim);
321     }
322 }
```

```
Project Classes Debug Vlachodimos.cpp media.h
mainmenu() : void
MBankinglogin() : void
MBankingmenu() : void
MBankingRegister() : void
MBankingstart() : void
Register() : void
scanflebank() : void
scanflegmail() : void
scanfleuser() : void
scanfitem() : void
start1() : void
tambahsaldo(int saldo) : void
Topup() : void
totalglobal() : void
totalharga() : void
website() : void
cartnow : int
gmail[100] : structemail
gmailpagenow : int
indexloginbank : int
indexloginmail : int
indexloginskr : int
itemcount : int
itemlist[200] : Itemm
jlbank : int
jlhmail : int
jlhuser : int
Mbank[100] : bannrk
pagenow : int
pengguna[100] : akuntoko
tim : clock_t
totalbelanjaan : int

184 }
185 }
186
187 void tambahsaldo(int saldo){
188     if(saldo <= 0){
189         printf("Tidak Valid\n");
190         clrscr();
191         MBankingmenu();
192     }
193
194     int index;
195
196     for(int i = 0; i < jlhuser; i++){
197         if(strcmp(Mbank[indexloginbank].email, pengguna[i].email) == 0){
198             index = i;
199             break;
200         }
201     }
202
203     pengguna[index].saldo += saldo;
204     printf("Berhasil Melakukan Top-up\n");
205
206     for(int i = 0; i < jlhgmail; i++){
207         if(strcmp(Mbank[indexloginbank].email, gmail[i].email) == 0){
208             index = i;
209             break;
210         }
211     }
212
213     time_t t;
214     time(&t);
215
216     strcpy(gmail[index].inbox[gmail[index].inboxcount].pengirim, "Vlachodimos Shop");
217     strcpy(gmail[index].inbox[gmail[index].inboxcount].keterangan, "Top-Up Saldo Berhasil Belanja yang Banyak ya bos! ");
218     strcpy(gmail[index].inbox[gmail[index].inboxcount].waktu, ctime(&t));
219     gmail[index].inboxcount++;
220     editfilegmail();
221     editfileuser();
222 }
```

```
Project Classes Debug Vlachodimos.cpp media.h
mainmenu() : void
MBankinglogin() : void
MBankingmenu() : void
MBankingRegister() : void
MBankingstart() : void
Register() : void
scanflebank() : void
scanflegmail() : void
scanfleuser() : void
scanfitem() : void
start1() : void
tambahsaldo(int saldo) : void
Topup() : void
totalglobal() : void
totalharga() : void
website() : void
cartnow : int
gmail[100] : structemail
gmailpagenow : int
indexloginbank : int
indexloginmail : int
indexloginskr : int
itemcount : int
itemlist[200] : Itemm
jlbank : int
jlhmail : int
jlhuser : int
Mbank[100] : bannrk
pagenow : int
pengguna[100] : akuntoko
tim : clock_t
totalbelanjaan : int

132 if(kbhit()){
133     char c = getch();
134     if(c == 49){
135         printf("\n");
136         Topup();
137     }
138     else if(c == 48){
139         printf("\n");
140         printf("Logging Out\n");
141         clrscr();
142         MBankingstart();
143     }
144 }
145
146 void Topup(){
147     printf("-----\n");
148     printf("Pilihan Top up : \n");
149     printf("[1] Rp.500.000\n");
150     printf("[2] Rp.1.000.000\n");
151     printf("[3] Custom\n");
152     printf("-----\n");
153     printf(">>>");
154     while(1){
155         if(kbhit()){
156             char c = getch();
157             if(c == 49){
158                 printf("\n");
159                 tambahsaldo(500000);
160             }
161             else if(c == 50){
162                 printf("\n");
163                 tambahsaldo(1000000);
164             }
165             else if(c == 51){
166                 break;
167             }
168         }
169     }
170 }
```



```
Project Classes Debug Vachodimos.cpp media.h  
mainmenu() : void  
MBankinglogin() : void  
MBankingmenu() : void  
MBankingRegister() : void  
Register() : void  
scanflebank() : void  
scanflegmail() : void  
scanfleuser() : void  
scanfitem() : void  
start() : void  
tambahsaldo(int saldo) : void  
Topup() : void  
totalglobal() : void  
totalharga() : void  
website() : void  
cartnow : int  
gmail[100] : structemail  
gmailpagenow : int  
indexloginsbank : int  
indexloginsmail : int  
indexloginskg : int  
itemcount : int  
itemlist[200] : item  
jlbhank : int  
jlbhmail : int  
jlbhuser : int  
Mbank[100] : bannink  
pagenow : int  
pengguna[100] : akuntoko  
tim : clock_t  
totalbelanjaan : int  
151 printf("Delete Berhasil\n");  
152 clrscr();  
153 cartmenu();  
154 }  
155 }  
156  
157 void totalharga(){  
158     printf("-----\n");  
159     int total = 0;  
160     for(int i = 0; i < pengguna[indexloginskg].cartcount; i++){  
161         total += (pengguna[indexloginskg].cart[i].jumlah * pengguna[indexloginskg].cart[i].harga);  
162     }  
163     totalbelanjaan = total;  
164     printf("Total Harga : Rp. %d\n", total);  
165     clrscr();  
166     cartmenu();  
167 }  
168  
169 void totalglobal(){  
170     int total = 0;  
171     for(int i = 0; i < pengguna[indexloginskg].cartcount; i++){  
172         total += (pengguna[indexloginskg].cart[i].jumlah * pengguna[indexloginskg].cart[i].harga);  
173     }  
174     totalbelanjaan = total;  
175 }  
176  
177 void clearscrenAbort(){  
178     printf("Aborting Operation\n");  
179     printf("Press Enter to Continue\n");  
180     getchar();  
181     getchar();  
182 }  
183  
184 void endprogram(){  
185     printf("\n-----\n");  
186     tim = clock() - tim;  
187     double time_taken = ((double)tim)/CLOCKS_PER_SEC;  
188     printf("Program digunakan selama %.4lf detik", time_taken);  
189     exit(0);
```

The image shows a C++ IDE with two files open: 'Vladichodim.cpp' and 'media.h'. The 'media.h' file is the active document and contains the following code:

```

37 // user Structure
38 typedef struct akuntoko{
39     char namaasi[100];
40     char email[100];
41     char password[100];
42     int saldo;
43     Cart5t cart[100];
44     int cartcount = 0;
45 };
46
47 // variabel Global
48 clock_t tim;
49 // Variabel Global Tokomedia
50 int jlhuser = 0;
51 int itemcount = 0;
52 int indexloginskrng = -1;
53 int pagenow = 1;
54 int cartnow = 1;
55 int totalbelanjaan;
56 // Variabel Global Gmail
57 int indexlogingmail = -1;
58 int jlhgmail = 0;
59 int gmailpagenow = 1;
60 // Variabel Global Mbanking
61 int indexloginbank = -1;
62 int jlhbank = 0;
63
64 // struct Global
65 akuntoko pengguna[100];
66 Item itemlist[200];
67 structemail gmail[100];
68 bannnk Mbank[100];
69
70 // Method Tampilan Website
71 // Method Tampilan Web
72 void website();
73 // Method Tampilan Tokomedia
74 void start1();

```

The 'Vladichodim.cpp' file is partially visible on the left, showing function definitions for the banking system, including 'mainmenu()', 'MBankinglogin()', 'MBankingmenu()', 'MBankingRegister()', 'MBankingstart()', 'Register()', 'scanfilebank()', 'scanfilemail()', 'scanfileuser()', 'scanitem()', 'start1()', 'tambahsaldo(int saldo)', 'Topup()', 'totalglobal()', 'totalarga()', 'website()', 'cartnow', 'gmail[100]', 'gmailpagenow', 'indexloginskrng', 'indexlogingmail', 'indexloginskrng', 'itemcount', 'itemlist[200]', 'jlbhbank', 'jlbhgmail', 'jlbhuser', 'Mbank[100]', 'pagenow', 'pengguna[100]', 'tim', and 'totalbelanjaan'.

Hasil Run :

```
E:\file\Kuliah\Semester 2\Praktikum\Algoritma Pemrograman\Responsi UTS\Vlachodimos.exe
=====
=                               WEBSITE                               =
=====
Sat May 21 22:08:30 2022

-----
[1] Vlachodimos Shop
[2] Email
[3] Top up saldo
[0] Exit
-----
>>>
```

```
E:\file\Kuliah\Semester 2\Praktikum\Algoritma Pemrograman\Responsi UTS\Vlachodimos.exe
=====
=                               VLACHODIMOS SHOP                               =
=====
Sat May 21 22:08:55 2022

Menyediakan Perlengkapan Olahraga Dengan Kualitas Terbaik
-----
[1] Login
[2] Daftar
[3] Kembali
[0] Keluar
-----
OS : Windows 64 Bit
-----
>>>
```

```
E:\file\Kuliah\Semester 2\Praktikum\Algoritma Pemrograman\Responsi UTS\Vlachodimos.exe
=====
VLACHODIMOS SHOP
=====
Sat May 21 22:08:55 2022

Menyediakan Perlengkapan Olahraga Dengan Kualitas Terbaik
=====
[1] Login
[2] Daftar
[3] Kembali
[0] Keluar
=====
OS : Windows 64 Bit
=====
>>>1
=====
Email : bayu@gmail.com
Password : *****
```

```
E:\file\Kuliah\Semester 2\Praktikum\Algoritma Pemrograman\Responsi UTS\Vlachodimos.exe
=====
VLACHODIMOS SHOP
=====
No.      Nama                                     Harga
1       GK Gloves Adidas Phantom 124 RZX         Rp.450000
2       GK Gloves Nike Predator 452 TR           Rp.500000
3       GK Gloves Puma Jan Oblak 456 OG          Rp.150000
4       GK Gloves Diadora 8901                   Rp.320000
5       GK Gloves Manuel Neuer Elastico 90       Rp.250000
6       GK Gloves Original Adidas                Rp.450000
7       GK Gloves 0293X                          Rp.190000
8       GK Gloves Puma RX                        Rp.650000
9       GK Gloves 90123                          Rp.229000
10      GK Gloves Indonesia Red                  Rp.780000
=====
[<-] Sebelumnya      1-10      [Tekan B untuk Beli]      Selanjutnya [->]
```

```
E:\file\Kuliah\Semester 2\Praktikum\Algoritma Pemrograman\Responsi UTS\Vlachodimos.exe
=====
                        VLACHODIMOS SHOP
=====
No.      Nama                        Harga@      Jumlah
1        GK Gloves Nike Predator 452 TR      Rp.500000    1
2        GK Gloves Adidas Phantom 124 RZX     Rp.450000    1
=====
[<--] Sebelumnya      1-10      Selanjutnya [-->]
      [D = Hapus]          [T = total belanjaan]
=====
Total Harga : Rp. 950000
Press Enter to Continue
```

```
E:\file\Kuliah\Semester 2\Praktikum\Algoritma Pemrograman\Responsi UTS\Vlachodimos.exe
=====
                        VLACHODIMOS SHOP
=====
No.      Nama                        Harga@      Jumlah
1        GK Gloves Nike Predator 452 TR      Rp.500000    1
2        GK Gloves Adidas Phantom 124 RZX     Rp.450000    1
=====
[<--] Sebelumnya      1-10      Selanjutnya [-->]
Total Harga : Rp950000
Saldo Anda : Rp. 1440000
=====
[1] Check-out
[2] Kembali
=====
Berhasil Check Out
Press Enter to Continue
```

saldo setelah checkout menjadi berkurang

```
E:\file\Kuliah\Semester 2\Praktikum\Algoritma Pemrograman\Responsi UTS\vlachodimos.exe
=====
=                                VLACHODIMOS SHOP                                =
=====
Sat May 21 22:10:56 2022

Selamat datang bayu
Saldo Anda : Rp 490000
-----
[1] Daftar item
[2] Keranjang Belanja
[3] Check-Out
[4] Kembali
[0] Logout
-----
-->
>>
```