

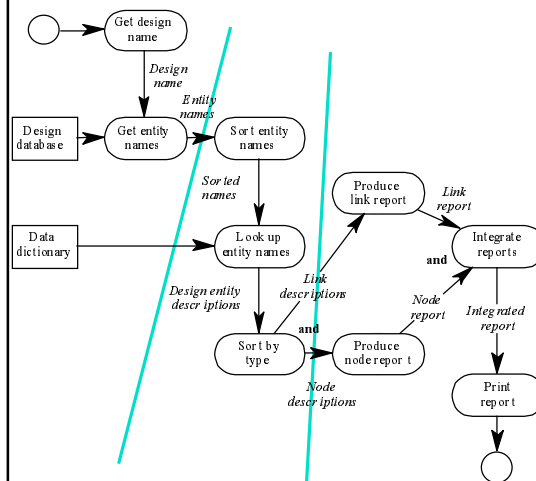
ATM software design

```

loop
loop
Print_input_message (" Welcome - Please enter your card" );
exit when Card_input ;
end loop ;
Account_number := Read_card ;
Get_account_details (PIN, Account_balance, Cash_available) ;
if Validate_card (PIN) then
loop
Print_operation_select_message ;
case Get_button is
when Cash_only =>
Dispense_cash (Cash_available, Amount_dispensed) ;
when Print_balance =>
Print_customer_balance (Account_balance) ;
when Statement =>
Order_statement (Account_number) ;
when Check_book =>
Order_checkbook (Account_number) ;
end case ;
Eject_card ;
Print ("Please take your card or press CONTINUE") ;
exit when Card_removed ;
end loop ;
Update_account_information (Account_number, Amount_dispensed) ;
else
Retain_card ;
end if ;
end loop ;

```

Design report generator



OIRS design

procedure OIRS is

begin

```
User := Login_user ;
Workspace := Create_user_workspace (User) ;
-- Get the users own document database using the user id
DB_id := Open_document_database (User) ;
-- get the user's personal index list;
Known_indexes := Get_document_indexes (User) ;
Current_indexes := NULL ;
-- command fetch and execute loop
loop
  Command := Get_command ;
  exit when Command = Quit ;
  Execute_command ( DB_id, Workspace, Command, Status)
  if Status = Successful then
    Write_success_message ;
  else
    Write_error_message (Command, Status) ;
  end if ;
end loop ;
Close_database (DB_id) ;
Logout (User) ;
end OIRS ;
```

Detailed process design

task body Get_command is

begin

-- Fetch/execute loop

loop

loop

Cursor_position := Get_cursor_position ;

exit when cursor positioned in workspace **or**
(cursor positioned over menu and button pressed)

Display_cursor_position ;

end loop ;

if In_workspace (Cursor_position) **then**

Workspace_editor.Enter ;

elsif In_command_menu (Cursor_position) **then**

Process_command.Command_menu ;

elsif In_Known_indexes (Cursor_position) **then**

Process_command.Display_indexes ;

elsif In_Current_indexes (Cursor_position) **then**

...

Other commands here

...

end loop ; -- Fetch/execute

end Get_command ;

-- other task implementations here

end Office_system ;