

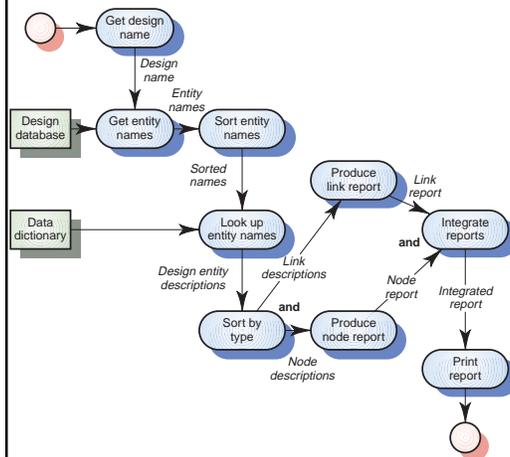
ATM software design

```

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 ;
```