

Home Design Software

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Problem Statement

- We have tried to design the rooms of a house along with furniture in 2D.
- This software will display the 2D designed home in 3D in the same window.
- The user will be able to add sofas, furnitures, tables, etc. in the room in the 2D view by using drag and drop methods. The exact position of the object can be set by allowing user to enter Z coordinates and rotate it in X-Y planes.

Description

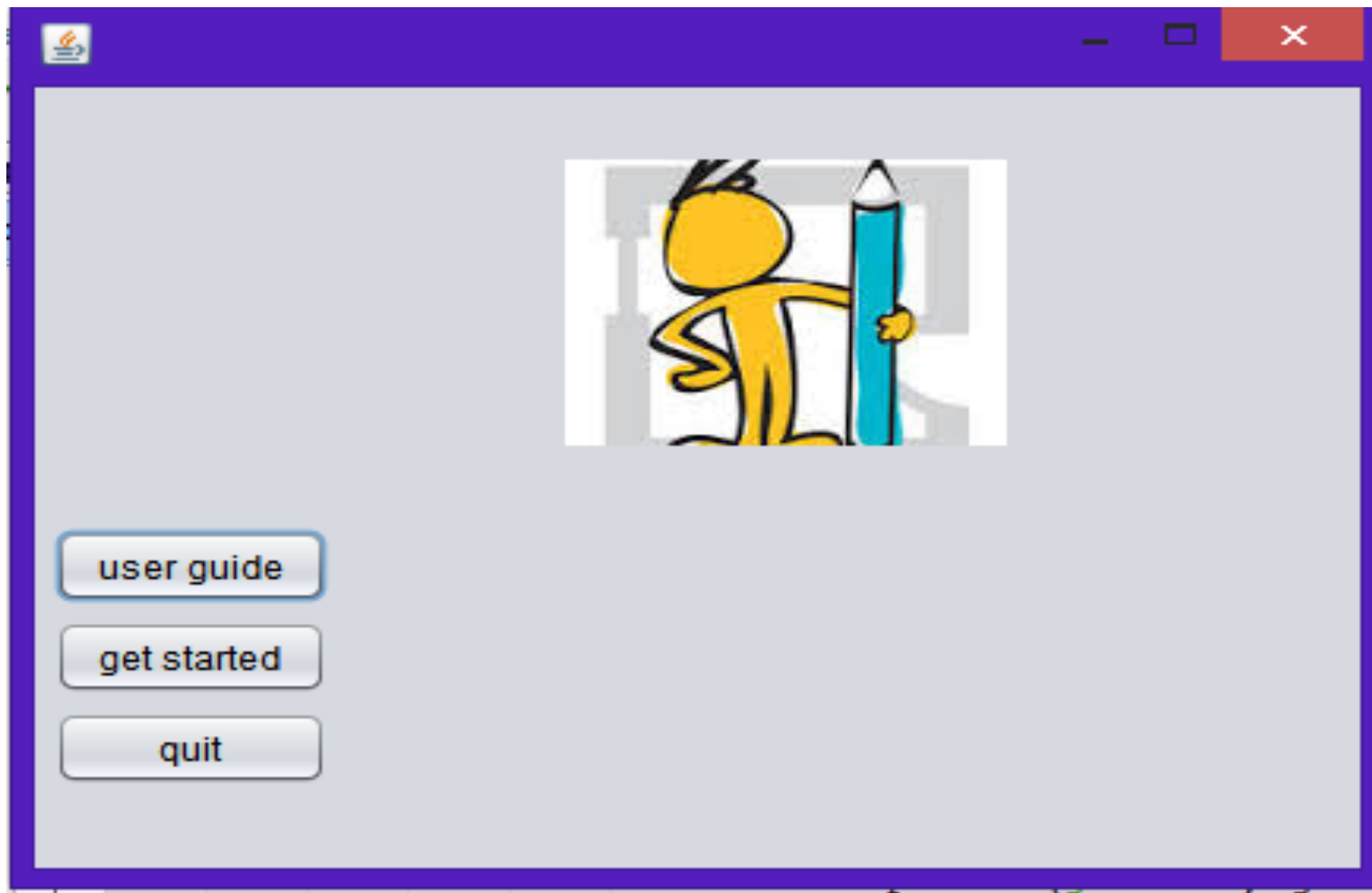
First we display a homepage from which the user can go to our user guide, sample video or get started with using the project


On starting, the next frame will appear which will ask him to generate his account where he will input the length and width of the room we are designing

Then there are options like table, sofa, chair etc to add.

Further walls can also be created .

the objects like tubelight wall hanging photo objects can also be incorporated.



[illegible]

10:38
12-04-2015



3_branagh_sofa_li
ghtbox_pearl_gre
y_pp1



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95434



beds-73352



chair



chair-03



download



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g-luxury-comfy-
online-office-fu...



images (1)



images



montage-elite-lu
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Smithfield-Sofa-
Purple-With-Cus
hions



Sofa25



Sofa-60-Slice-Des
igner-Sofa-2



sofa-slide-2



Solid-Wood-Bed



traditional



transitional-panel
-beds



two-person-rocki
ng-chair-plans-3



ebony-veneered-
coffee-game-tabl
e-mk2lu-52



modern-dining-t
ables



modern-outdoor
-dining-tables



Unique-Circular-
Glass-Meeting-T
able

table.cpp (Table) - Code::Blocks svn build

File Edit View Search Project Build Debug Tools Plugins DoxyBlocks Settings Help

<global> drawScene() : void

Build target: Debug

Management

Projects Symbols Files

Workspace

- Chair
- Bed
 - Sources
 - imageloader.cpp
 - main.cpp
- Table
 - Sources
 - imageloader.cpp
 - table.cpp

main.cpp main.cpp table.cpp

```
//face_1_bottom_of_legs
glNormal3f (0,-1,0);
glTexCoord2f (0,0);
glVertex3f (0,0,0);
glTexCoord2f (1,0);
glVertex3f (x,0,0);
glTexCoord2f (1,1);
glVertex3f (x,0,-x);
glTexCoord2f (0,1);
glVertex3f (0,0,-x);

//face_2_bottom_of_legs
glNormal3f (0,-1,0);
glTexCoord2f (0,0);
glVertex3f (z,0,0);
glTexCoord2f (1,0);
glVertex3f (z+x,0,0);
glTexCoord2f (1,1);
glVertex3f (x+z,0,-x);
glTexCoord2f (0,1);
glVertex3f (z,0,-x);
```

Logs & others

Code::Blocks Search results Build log Build messages CppCheck CppCheck messages Debugger DoxyBlocks Closed files list

Checking for existence: C:\Users\MANISH\Desktop\try4\bin\Debug\try4.exe
Executing: "C:\Program Files (x86)\Codeblocks-Simplecpp\cb_console_runner.exe" "C:\Users\MANISH\Desktop\try4\bin\Debug\try4.exe" (in C:\Users\MANISH\Desktop\try4\.)
Process terminated with status 0 (0 minutes, 16 seconds)

C:\Users\MANISH\Desktop\Table\table.cpp WINDOWS-1252 Line 65, Column 34 Insert Read/Write default

This PC Show hidden icons 12:00 12-04-2015

Challenges

- ❖ The interface was completely designed using **Netbeans**. We had to learn Java to excel at it.
- ❖ The furniture objects are given in the form of images which the user drags and drops in a panel of size given by user. This creates a blueprint of the room.
- ❖ The biggest hurdle in this project is to convert 2D blueprint into a 3D output. As for now, we have created some furniture objects on our own in 3D using **OPENGL**. But we are looking for rendering softwares

Future Work

- The software can be extended to include lofts, pillars, circular walls etc.
- The scope of various objects can be expanded to include various appliances likes fans, ACs, TVs as well as designer tables and wall art.
- For future it can be improved by giving some samples rooms to design or edit in graphical as well as digital format.

Innovations

- Until now users and people relied on interior designers to create their dream home. This software will hand the users the power to design their dream homes.