American International University Bangladesh

PROJECT: Hotel-Restaurant booking &

Comparison System

Course: Software

Engineering

Section: L

Group No: 6

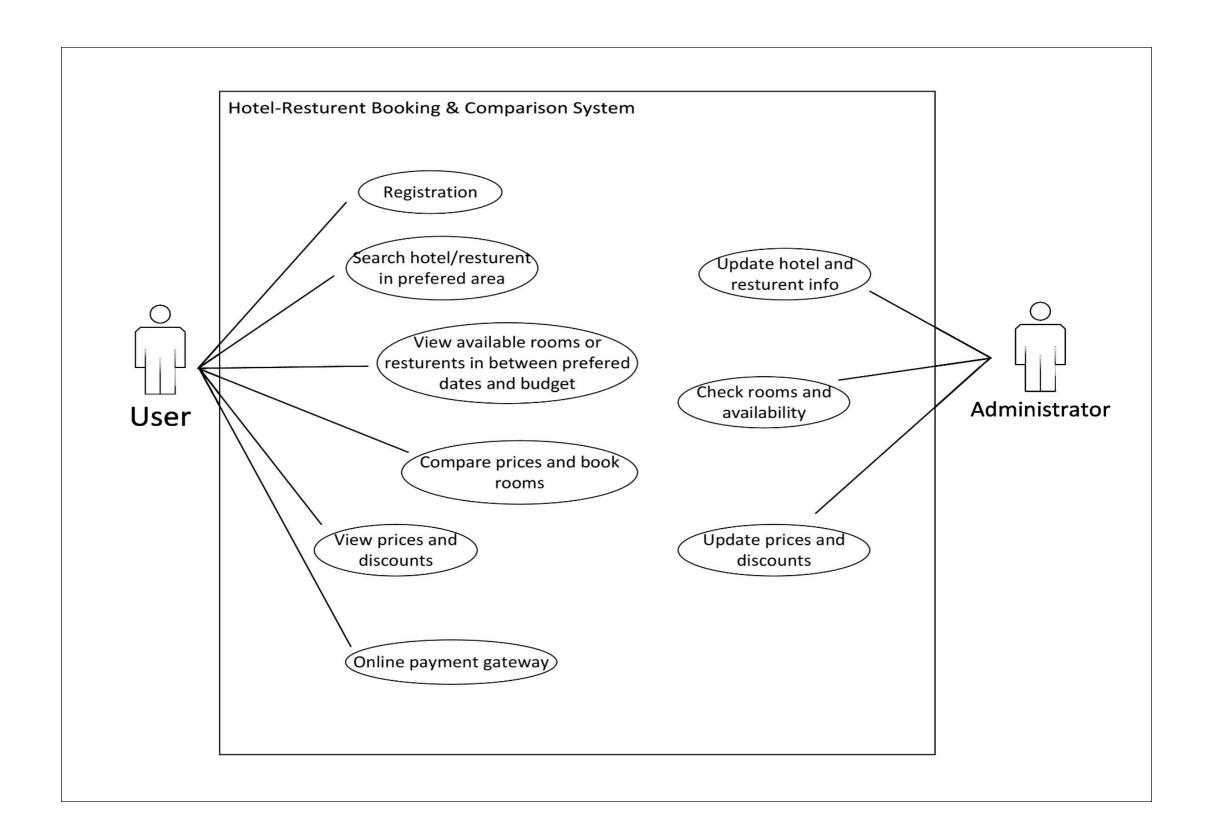
Group Members:

Name	Id
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MAHIN ZAMAN ARNOB	18-37160-1

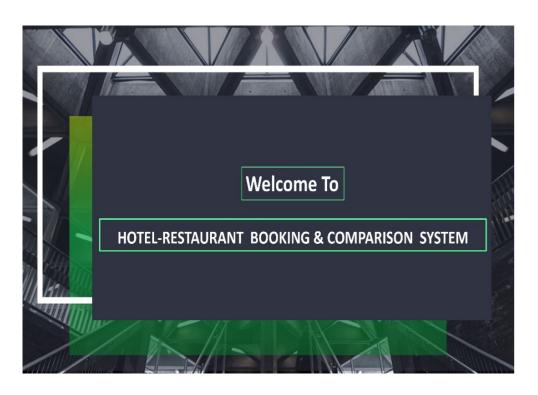
PROJECT IDEA

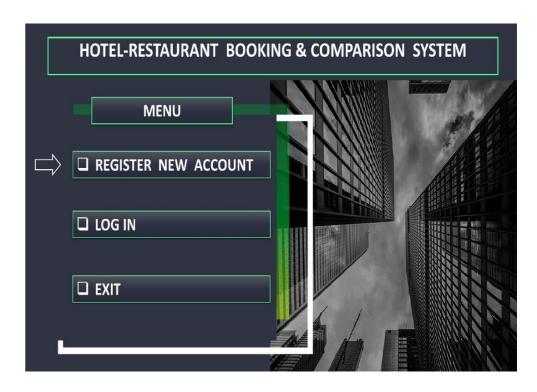
The main idea behind our project is to provide information to all the travelers who love to travel and the hotel owners who wants to expand their business through online .Our motive is to make the travel easy and comfortable . By our project user can confirm all of his/her to-do's before going on a tour . User can book hotel according to his/her criteria and budget . Our system will provide all the detailed information about a hotel and an user can find his favorite hotel within his budget . And he/she can find resurgent according to his taste. Using this system hotel management or restaurant can also update their facilities. Anybody can use this system to know about a hotel and restaurant and can find all the helps to make a trip there .

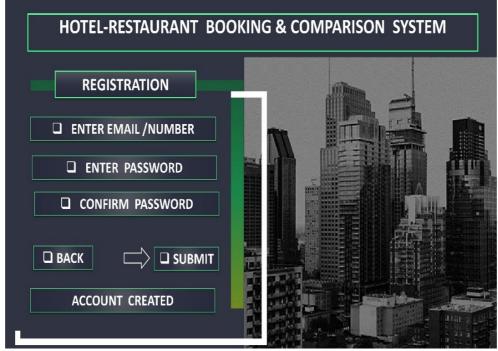
Use case diagram



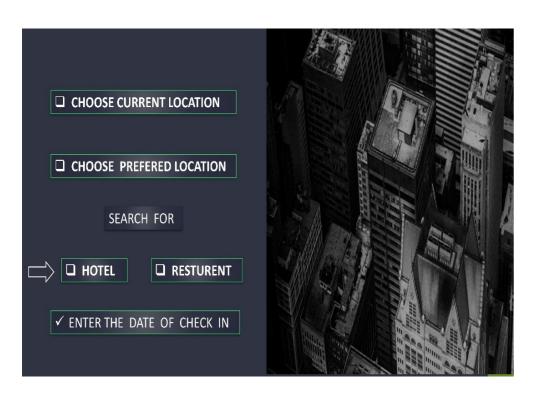
User Interface(UI)







User Interface(UI)





AVAILABLE HOTELS ACCORDING TO YOUR SEARCH				
BASIC(< 3000 tk)	MIDIUM(< 8000 tk)	PRIMIUM(>8000)		
HOTEL DIAMOND PARK-*** 50 REVIEWS 2 GUEST - 2800 TK/NIGHT (REGULER) 10 ROOMS AVAILABLE SHOW DETAILS ROYAL LIVING TEL & SUITES -*** 25 REVIEWS 2 GUEST - 2000 TK/NIGHT (WITH 1 SNACKS) 8 ROOMS AVAILABLE SHOW DETAILS BOOK ROOM	JATRA ROOMS CTG- **** 100 REVIEWS 2 GUEST – 7000 TK/NIGHT (DISCOUNT AVE.) 12 ROOMS AVAILABLE SHOW DETAILS WELL PARK RESIDENCE- ** 110 REVIEWS 2 GUEST – 6500 TK/NIGHT (WITH BREAKFAST) 10 ROOMS AVAILABLE SHOW DETAILS BOOK ROOM	THE PENINSULA CHITTAGONG- **** 200 REVIEWS 2 GUEST – 10000 TK/NIGHT (REGULER) 10 ROOMS AVAILABLE SHOW DETAILS BOOK ROOM RADISSON BLU CHITTAGONG- *** 180 REVIEWS 2 GUEST – 10000 TK/NIGHT (WITH 1 SNACKS) 10 ROOMS AVAILABLE SHOW DETAILS BOOK ROOM		
HOTEL REGAL PALACE-NEW NO REVIEWS 2 GUEST – 1500 TK/NIGHT (REGULER) 4 ROOMS AVAILABLE SHOW DETAILS BOOK ROOM BACK	NABA INN GUEST HOUSE- ** 50 REVIEWS 2 GUEST – 5000 TK/NIGHT (REGULER) 2 ROOMS AVAILABLE SHOW DETAILS BOOK ROOM	THE AVENUE HOTEL & SUITES- *** 200 REVIEWS 2 GUEST – 9000 TK/NIGHT (DISCOUNT AVE.) 10 ROOMS AVAILABLE SHOW DETAILS Show more		



User Story Card

User Story Template

his/her registration.

Title: Registration	Priority: 1	Estimate:5.00
As a user I can register for the application by entering my information.		
I want to complete the registration process.		
so that I can confirm my registration.		
Acceptance criteria		
Given anybody can register.		

Then if there is no duplicate of email in the database, the user will be able to complete

When the user provides a valid email and unique password.

User Story Template

Title: compare	Priority: 3	Estimate:8.00	
As a user I can compare between two or more hotels and restaurants. I want to find the best deal between many hotels & restaurants. so that I can complete my full tour within my budget.			
Acceptance criteria Given verified location When the user wants to campare between hotel	s/restaurants		
Then if the location has more than one hotel or recompare	estaurant,the user w	ill be able to	

User Story Card

User Story Template

Title: compare	Priority: 3	Estimate:8.00

As a user I can compare between two or more hotels and restaurants.

I want to find the best deal between many hotels & restaurants.

so that I can complete my full tour within my budget.

Acceptance criteria

Given verified location

When the user wants to campare between hotels/restaurants

Then if the location has more than one hotel or restaurant,the user will be able to compare

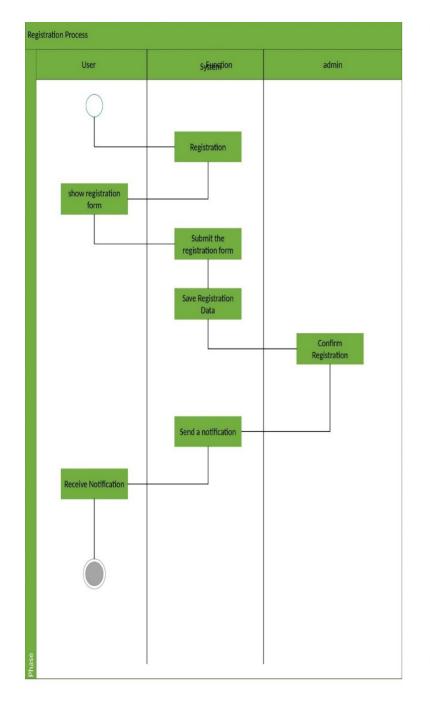
User Story Template

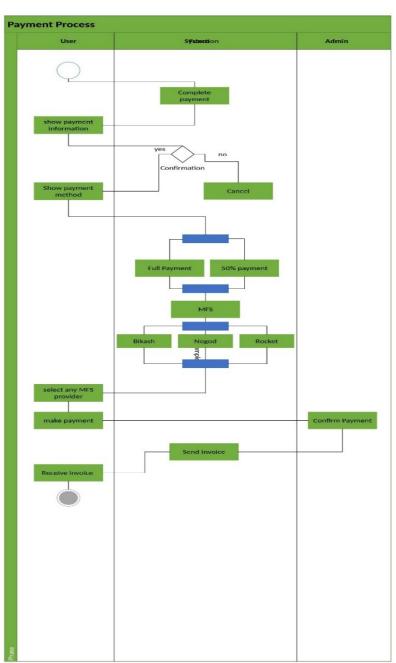
see the discounts and the offers

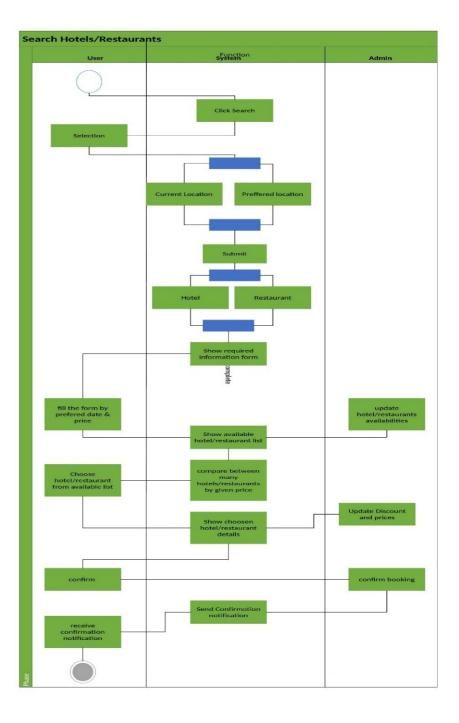
Title: Price	Priority: 4	Estimate:4.00	
As a user I can know about the prices of different hotels & restaurants.			
I want to get a hotel according to my budget.			
so that I can complete my tour peacefully.			
Acceptance criteria			
Given discounts and offers			
When the user provides his/her budget and wan	ts to know about dise	counts	

Then according to the users budget if any offer or discount available then the user can

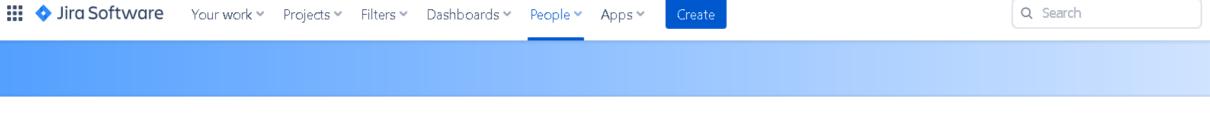
Activity diagram

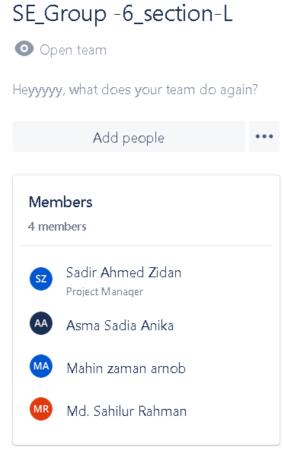






JIRA



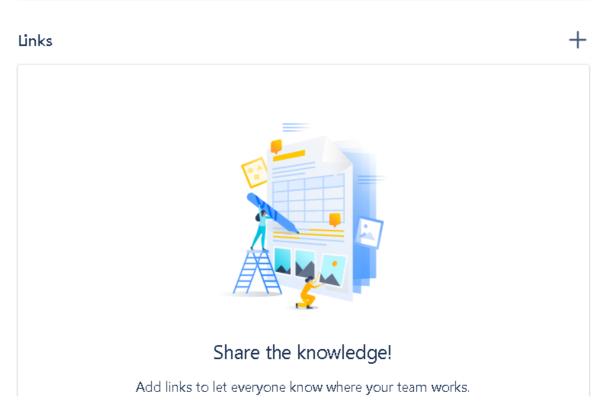


Worked on

HBCS-2 Use Case Diagram
Hotel/Resturent Booking and Comparison System · You and Asma Sadia Anika have both worked on this

HBCS-4 User Story Card
Hotel/Resturent Booking and Comparison System · You and Mahin zaman arnob have both worked on...

HBCS-5 Activity Diagram
Hotel/Resturent Booking and Comparison System · You and Md. Sahilur Rahman have both worked on...



JIRA

Туре	Key	Summary	Assignee	Reporter	Р	Statu
	HBCS-5	Activity Diagram	Md. Sahilur Rahman	Sadir Ahmed Zidan	*	DON
V	HBCS-4	User Story Card	Mahin zaman arnob	Sadir Ahmed Zidan	*	DON
V	HBCS-3	User Interface	Sadir Ahmed Zidan	Sadir Ahmed Zidan	*	DON
V	HBCS-2	Use Case Diagram	Asma Sadia Anika	Sadir Ahmed Zidan	*	DON
✓	HBCS-1	Presentation Slide Of the Project	Sadir Ahmed Zidan	Sadir Ahmed Zidan	*	DON

GitHub

```
Command Prompt
(c) Microsoft Corporation. All rights reserved.
C:\Users\USER>cd desktop
C:\Users\USER\Desktop>cd C:\Users\USER\Desktop\Git hub
C:\Users\USER\Desktop\Git hub>git config --global user.name "Zidan010"
C:\Users\USER\Desktop\Git hub>git config --global user.email "sazidan559@gmail.com"
C:\Users\USER\Desktop\Git hub>git config --global --list
user.name=Zidan010
user.email=sazidan559@gmail.com
::\Users\USER\Desktop\Git hub>git clone https://github.com/Zidan010/Zidan.git
Cloning into 'Zidan'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
C:\Users\USER\Desktop\Git hub>cd Zidan
C:\Users\USER\Desktop\Git hub\Zidan>git init
Reinitialized existing Git repository in C:/Users/USER/Desktop/Git hub/Zidan/.git/
C:\Users\USER\Desktop\Git hub\Zidan>git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
C:\Users\USER\Desktop\Git hub\Zidan>git add -A
C:\Users\USER\Desktop\Git hub\Zidan>git status
On branch main
Your branch is up to date with 'origin/main'.
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
C:\Users\USER\Desktop\Git hub\Zidan>git status
On branch main
Your branch is up to date with 'origin/main'.
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
```

Class Diagram

System

- CustomerInfo: Customer = null
- Hotelownerinfo: HotelOwner = null
- holtelList: booking = null
- CreateEntry: Entry = null
- Hotelname : string = null
- setCustomerInfo()
- verifyCustomerInfo()
- + addCustomerInfoToDatabase()
- setHotelownerinfo()
- verifyHotelownerinfo()
- + addHotelListToDatabase()
- Checkhotelroomsavailability()
- + getpayment()
- updateHotelList()
- updatecustmerbooking()
- updateHotelBookingHistory()
- + getHotelBookingList(): Booking
- + publishEntry()
- + addEntryInfoToDatabase()
- + getHotelComperison(bk 1:Booking,bk 2:booking)
- + getTopBookedHotelList(): Booking
- + ShowOverviewInfo()
- + SearchHotel(): Booking
- + sentbookingRequestToHotelOwner()

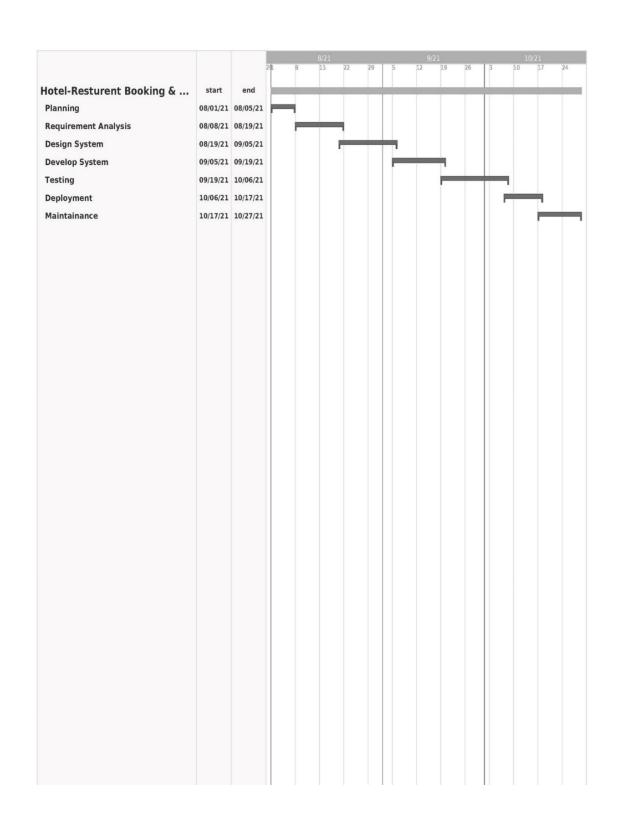
Customer

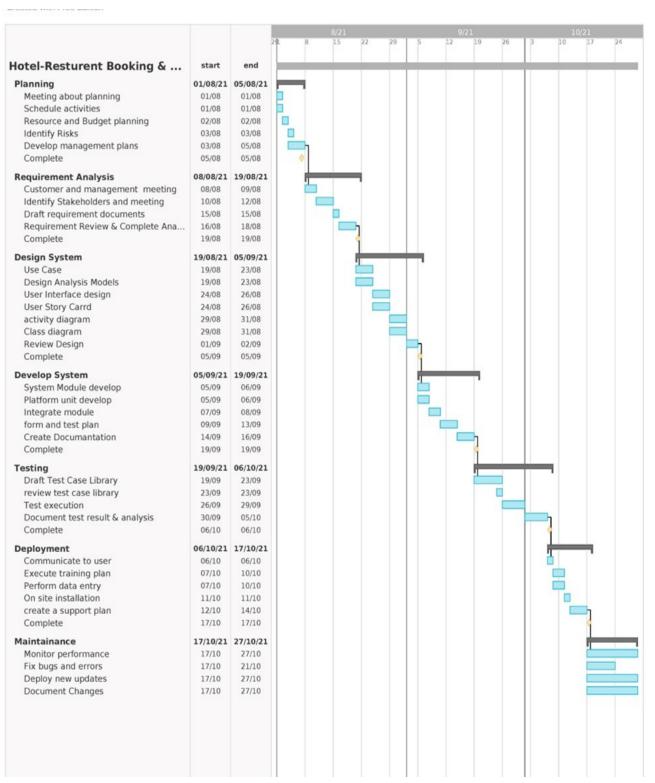
- + customer_name: String = null
- + customer_Pass: string = null
- + customer_mail: string =null
- + customer_Address: string=null
- customer userId: string = null
- fillupForm()
- + getRegistrationInfo(): Customer
- + makepayment()
- + submitRequestedBooking(): Booking
- + getbookingInfo()
- + getbookingPayInfo()
- setSearchHotelname()
- + getSearchHotelname(): string
- + getSearchHotelList(p list Hotels)

Restaurant/HotelOwner

- OwnerName: string = null
- OwnerMail: string = null
- OwnerAddress: string = null
- Ownerphonenum: string= null (max 11 digit)
- hotelName: string = null
- hotelAddress: string = null
- hotelranking: string = null
- bookingInfo: Booking = null
- topBookedhotelRooms: Booking = null
- requestedBooking: Booking = null
- fillupForm()
- + getOwnerRegistrationInfo(): HotelOwner
- submitHotelBookingInfo()
- + getHotelName()
- + getHotelAddress()
- + getHotelCatagory()
- + getTopBookedHotels (Booking : Booking)
- + getTopBookedHotelrooms()
- + createNewEntry() : Entry
- + givepromotionalfee()
- addHotels()
- + getHotelList(): Booking
- + setrequstedBooking()(br list:Booking)

Timeline Chart





Budgeting

Hotel-Resturent Booking & Comparison System

Project Estimation

Type: Organic
Coefficient=2.4
Source line of code(SLOC)=22000 SLOC
Project Complexity(P)=1.05
SLOC dependent coefficient(T)=0.38

Person month needed for project(PM):Coefficient* $(SLOC/1000)^P$ = 2.4 * $(22000/1000)^{1.05}$ = 62 months

Development time(DM): $2.50* (PM)^T$ = $2.50* (62)^{0.38}$ = 12 months = 1920 working hours

Required number of people (ST): PM/DM =62/12 =6

Project Budget

Salary of Developer:

Per hour working salary = 600 tk
Total salary for developers= 600tk*1920hrs=1152000 tk

Requirement Analysis:

Total time for analysis=3weeks=15 working days=15*8=120 hours
Per hour analysts salary=500
Total salary= 500*120=60000 tk

Salary of project tester:

Testing time estimated = 3 months=22*8*3 =528 hours Tester salary per hour = 500 tk Total salary = 500*528=264000 tk

Project Management:

Total working time= 8 months=8*22*8=1408 Per hour salary of management=500 tk Total salary=300*1408=422400 tk

Maintainance:

After deployment maintainance time=4 weeks=20*5=100 hours
Cost per hour=1000
Total cost=1000*100=100000 tk

Office Expenses:

Rent=12*30000=360000tk

Training expense = 50000tk

Transportation cost=24000tk

Hardware and stuffs=100000tk

Miscellaneous =12*1500=18000tk

Total Estimated Expense:

(1152000 tk + 60000 tk + 264000 tk + 422400 tk + 100000 tk + 360000tk +50000tk + 24000tk + 100000tk +18000tk) = 2550400 tk

Total after 20% profit:

20% of 2550400=510080 tk
Total Project Budget=3060480 tk

