

- What are advantage of using objects and classes in the code.

- By using objects to represent things in your code, the code stays
- **Organized**
- **Flexible**
- **Reusable.**

## ORGANIZED

Objects keep code organized by putting related details and specific functions in distinct, easy-to-find places.

## FLEXIBLE

Objects keep code flexible, so details can be easily changed in a modular way within the object, without affecting the rest of the code.

## REUSABLE

- Objects allow code to be reused, as they reduce the amount of code that needs to be created, and keeps programs simple.



- Objects are self-aware in software production, even if they are inanimate objects. For example, a mobile phone “knows” its specifications such width, dimension, camera specification.

- Similarly, in object-oriented modeling, an object such as a chair would know its dimensions and location.

- A good exercise to help you start object-oriented thinking is to look at the room around you and identify what might be objects.
- For example, you might see a computer, a person, or some kind of furniture.

- These all have their own specific details and may have behaviors or responsibilities that would be relevant to a user of that object.



- For a computer system, details might include operating software or display resolution. Responsibilities might include turning on and off, or displaying a screen.



- Even the room itself is an object! It may have a seating capacity, a room number, or a purpose that provide specific details and responsibilities to the room as an object.



- What objects are around you?  
What kinds of details and behaviors  
might they have?

## SOFTWARE DESIGN PROCESS

- Understand your client and Verify whether you have understood correctly.
- Make it Understand to Your Developers.
- Design the Software
- Develop, Test and Deploy

- Many projects fail when this process is skipped over, especially when work immediately begins with coding, and there is a lack of understanding of the requirements and design.

## DESIGN TYPES

- Conceptual design
- Technical diagrams.

- Conceptual designs are created with an initial set of requirements as a basis. The conceptual design recognizes appropriate **components**, **connections**, and **responsibilities** of the software product.

- Technical designs build on conceptual designs. In the conceptual design, the major components and connections as well as their associated responsibilities of the software being developed are outlined.



**TEST YOUR  
KNWOLEDGE**



- Create Classes for upcoming user screens



**STUDENT**

Student can create account and login the system by providing same email address and password during account creation. If student want to login through other account(**google** or face book) student will be able to login. Student can activate account through email activation link.



78 x 54

Already have an account? [SIGN IN](#)

## Create an Account

Email

Password

Confirm Password

Support education research by providing additional information



78 x 61



78 x 54

Already have an account? [SIGN IN](#)

## Create an Account

Email (required)!

Password (required)!

Confirm Password (required)!

Support education research by providing additional information

[Create Account](#)

[Sign Up With  
Google](#)

[Sign Up With  
Facebook](#)



78 x 61



Courses      Profile



JOHN ▾

## Activate Your Account

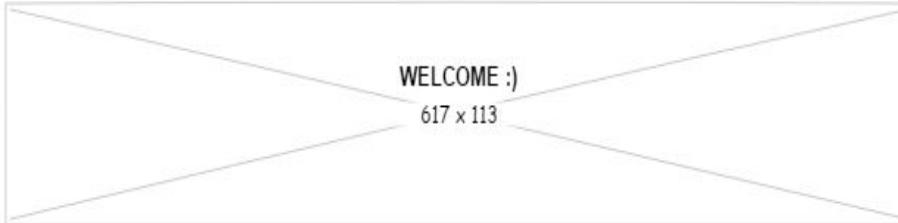
We need to verify your email address

Almost there! In order to complete your sign up we need you to verify your email address (brianchenuva@gmail.com). An activation message and next steps should be waiting for you there.

**Didn't receive a mail?**  
[Click to Resend](#)

[ABOUT](#)   [CONTACT](#)   [PRIVACY POLICY](#)





Action Required: Activate your YOUR PLATFORM NAME HERE account [Inbox X](#)



[WebsiteName@WebsiteDomain.com](#)

[to me](#) [▼](#)

You are almost there! Use the link to activate your account to access engaging, high-quality YOUR PLATFORM NAME HERE courses. Note that you will not be able to log back into your account until you have activated it.

<http://127.0.1.1/activate/03e19394cdb249b7a5128e1e96e0bebc>

Enjoy learning with YOUR PLATFORM NAME HERE.

The Your Platform Name Here team

 Reply

Forward 

**EMAIL**

First time here? [Create an Account](#)

EMAIL

This is the e-mail address you used to register

**PASSWORD**

\*\*\*\*\*

[Forgot Password?](#) Remember Me**LOGIN****Login With  
Google****Login With  
Facebook**[ABOUT](#)   [CONTACT](#)   [PRIVACY POLICY](#)



We couldn't log you in.

- Please enter your Email.
- Please enter your password.

First time here? [Create an Account](#)

**EMAIL**

EMAIL

This is the e-mail address you used to register

**PASSWORD**

[Forgot Password?](#)

Remember Me

**LOG IN**

**Login With Google**

**Login With Facebook**

[ABOUT](#)   [CONTACT](#)   [PRIVACY POLICY](#)





Story#2 end



Student can reset password if he/she forgets password, so by just clicking on “Forgot password”. Through reset password link sent in email, password will be reset and he/she can login with this password.



78 x 54

## Reset your password

Please enter your e-mail address below, and we will e-mail instructions for setting a new password.

[email:](#)



EMAIL

[Reset Password](#)



78 x 54

## Reset your password

Please enter your e-mail address below, and we will e-mail instructions  
for setting a new password.

Email

Not a valid email:

1233443455

Reset Password



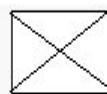
78 x 61

## Password reset on your Platform Name Here



malikmomina@gmail.com

Dec 24, 2018, 11:41 AM (1 day ago)



[Sign in](#)

### Password reset

You're receiving this e-mail because you requested a password reset for  
your user account at Your Platform Name Here.

If you didn't request this change, you can disregard this email - we have  
not yet reset your password.

[Change my  
Password](#)



78 x 54



JHON V

## Reset your Password

Type your new password

\*\*\*\*\*Verify Strong

Type your new password one more time

\*\*\*\*\*

Remember Me

**Submit**

---

ABOUT CONTACT PRIVACY POLICY





## Password Reset

Congratulations! You've successfully  
changed your password.

### [Review your applications](#)

Take a moment to review the applications that have access to your account.

Revoke those you don't recognize or no longer use.

[Continue](#)



**Story#3 end**



Student can view and edit his own profile, navigate to different sections (upload picture, about us and similar other) in profile and provide the required information.

The diagram illustrates a user profile interface. At the top, there is a placeholder for a profile picture labeled "78 x 54". To the right are navigation links: "Courses", "Profile" (which is highlighted in blue), and "Discover New". Next to these is a placeholder for a user icon labeled "JOHN ▾". Below this header, a message states "Profile is 10% complete" with a progress bar consisting of a blue segment followed by a white segment.

## My Profile

Build your own profile

Upload an image

John

1  
Upload a picture

2  
Provide Basic Info

3  
Add About

4  
Additional Info

ABOUT CONTACT PRIVACY POLICY

78 x 61

78 x 54 Courses Profile Discover New JOHN ▾

Profile is 40% complete

## My Profile

Build your own profile

Country/Region

Hong Kong

Language

English

1 Upload a picture

2 Provide Basic Info

3 Add About

4 Additional Info

ABOUT CONTACT PRIVACY POLICY

78 x 61

The diagram illustrates a user profile editing interface. At the top, there's a navigation bar with icons for Courses, Profile, and Discover New, along with a user icon labeled JOHN. Below the navigation bar, a progress bar indicates "Profile is 70% complete". The main section is titled "My Profile" and contains the sub-instruction "Build your own profile". A large central area is labeled "+ About Me" with a pencil icon, and below it is the placeholder text "Tell people about yourself with a short description". On the left side, there's a "Back" button with a left arrow icon. On the right side, there's a large right-pointing arrow. At the bottom, there are four circular steps: 1. "Upload a picture", 2. "Provide Basic Info", 3. "Add About" (which is highlighted in blue), and 4. "Additional Info". At the very bottom, there are links for ABOUT, CONTACT, and PRIVACY POLICY, along with a "78 x 61" placeholder icon.

78 x 54

Courses   Profile   Discover New

JOHN ▾

Profile is 70% complete

My Profile

Build your own profile

+ About Me

Tell people about yourself with a short description

Back

1 Upload a picture

2 Provide Basic Info

3 Add About

4 Additional Info

ABOUT   CONTACT   PRIVACY POLICY

78 x 61

[Courses](#)[Profile](#)[Discover New](#)

JOHN ▾

**Profile is 40% complete**

## My Profile

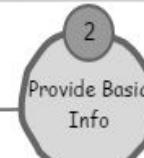
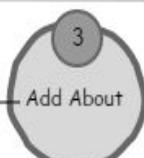
Build your own profile



Education Completed

Gender

Year of Birth

1  
Upload a picture2  
Provide Basic Info3  
Add About4  
Additional Info

A student can change the account information in account setting page by clicking at “Account”. Student can reset password successfully but in this case he/she has to provide previous password to reset it with new password . The student can delete his/her account by deleting it through the account setting page



Courses

Profile

## ACCOUNT SETTINGS

ACCOUNT INFORMATION

LINKED ACCOUNTS

This section contains basic information about your account. You can specify additional information here.

**Basic Account Information**

Username

John

Full Name

John Fish

Email

John@anydomain.com

Password

**RESET PASSWORD**

Time Zone

Asia/Hong Kong(HKT, UTC+0800)



Language

English

**Social Media Links**

Optionally link your account to social media icons on your profile

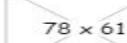
Twitter

Facebook

LinkedIn

**Delete My Account**

Please note: Deletion of your account and personal data is permanent and cannot be undone.  
Once your account is deleted, you cannot use it to take courses.

**DELETE**

JOHN ▾

[Profile](#)  
[Account](#)  
[certificates](#)  
[Signout](#)



78 x 54



JHON ▾

## Reset your Password

Type your Previous password

 \*\*\*\*

[Verify Strong](#)

Type your new password one more time

 \*\*\*\*

Remember Me

**Submit**

[ABOUT](#)   [CONTACT](#)   [PRIVACY POLICY](#)



78 x 61



78 x 54

## Password Reset

Congratulations! You've successfully  
changed your password.

### [Review your applications](#)

Take a moment to review the applications that have access to your account.

Revoke those you don't recognize or no longer use.

[Continue](#)

If you still wish to continue and delete your account, please enter your account password:

Password

Yes, Delete

Cancel