



# Comma Club Goals

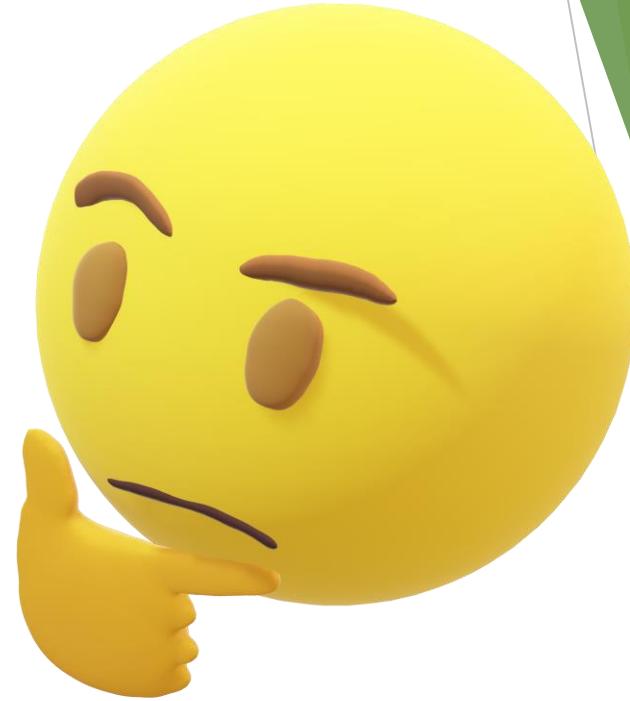
The word "Comma" is written in a large, white, sans-serif font. The words "Club" and "Goals" are stacked vertically below it in a smaller, white, sans-serif font. A large, shiny gold-colored double逗号 (double quotes) symbol is positioned at the bottom of the page, centered under the word "Goals".



How many of you took a finance class during high school? In the military?

How many of you are financially comfortable?

How many months salary  
should you have saved up?



How many of you  
have heard that you  
need 6 months income  
saved up?

Most people  
do not save  
even 5% of  
their income.

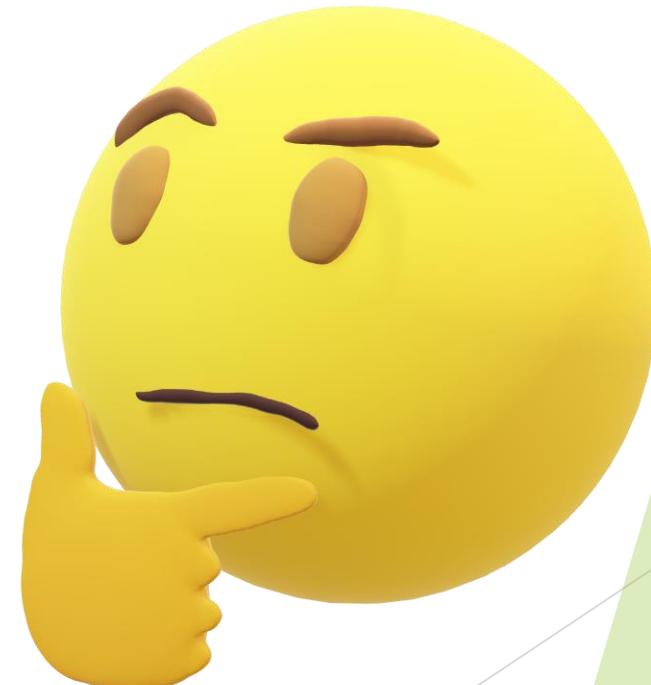
## Savings By Age

- 18-34: \$750
- 35-49: \$2,500
- 50-74: \$6,000
- 75+: \$11,000



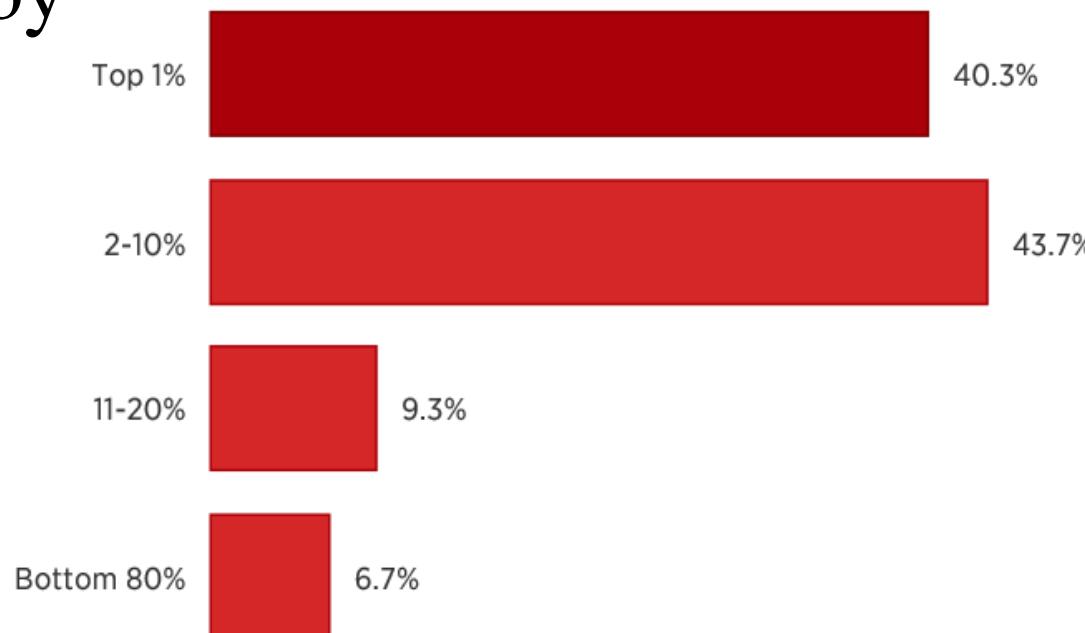
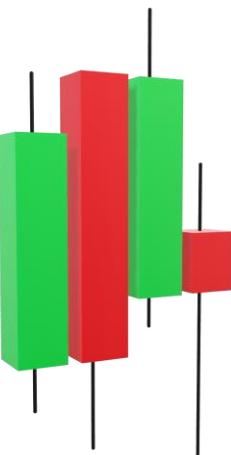
# What is a reverse split?

# What is shorting?

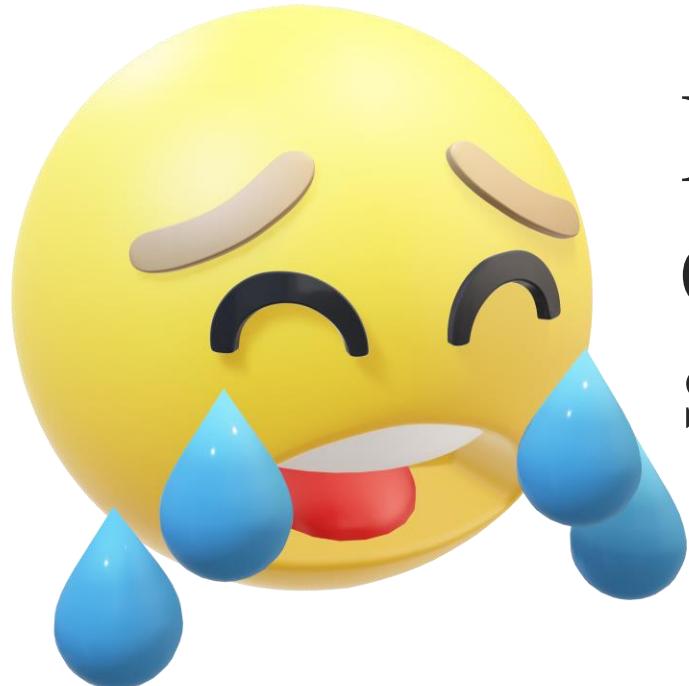


# Shareholders by income

84 Percent of stock wealth  
in 2016 was controlled by  
the top 10 percent of  
households.

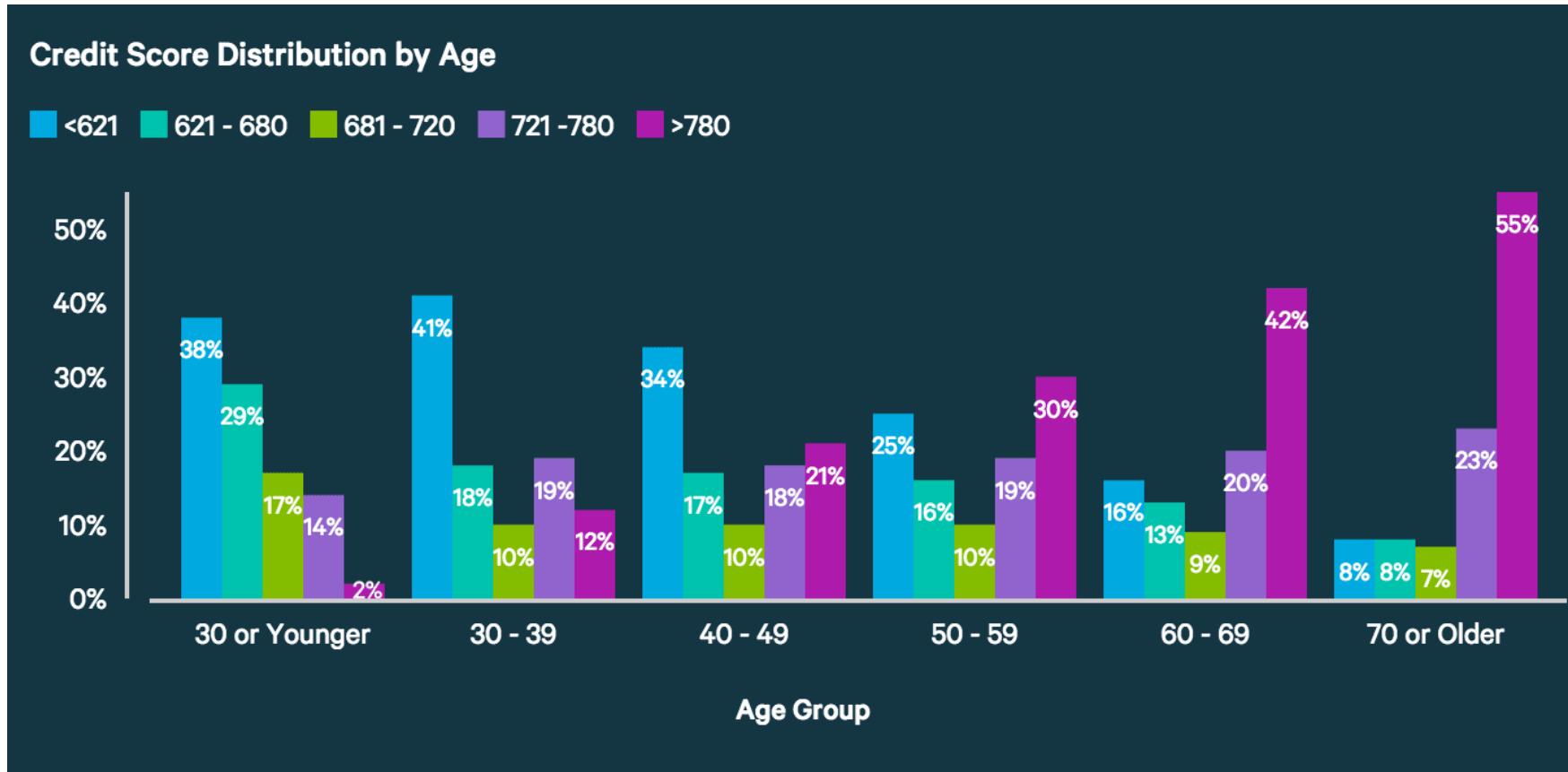


How many of you  
have an excellent  
credit score?



How many of you  
even know your credit  
score?

# Credit Score Distribution By Age



It is not hard to see that younger generations are developing worse credit scores, usually because of ignorance.

# Workplan Estimates(Hrs)

## Design

- Requirements(24)
- Database design(24)
- Workflow mapping (18)
- Interface design (30)
- Marketing research (40)
- Cost analysis (4)
- Total = 140

## Implementation

- Database construction (8)
- Web development (250)
- Deployment (8)
- Testing (50)
- Compliance (15)
- Total = 331

## Grand Total

- 639 Hrs

## Overhead

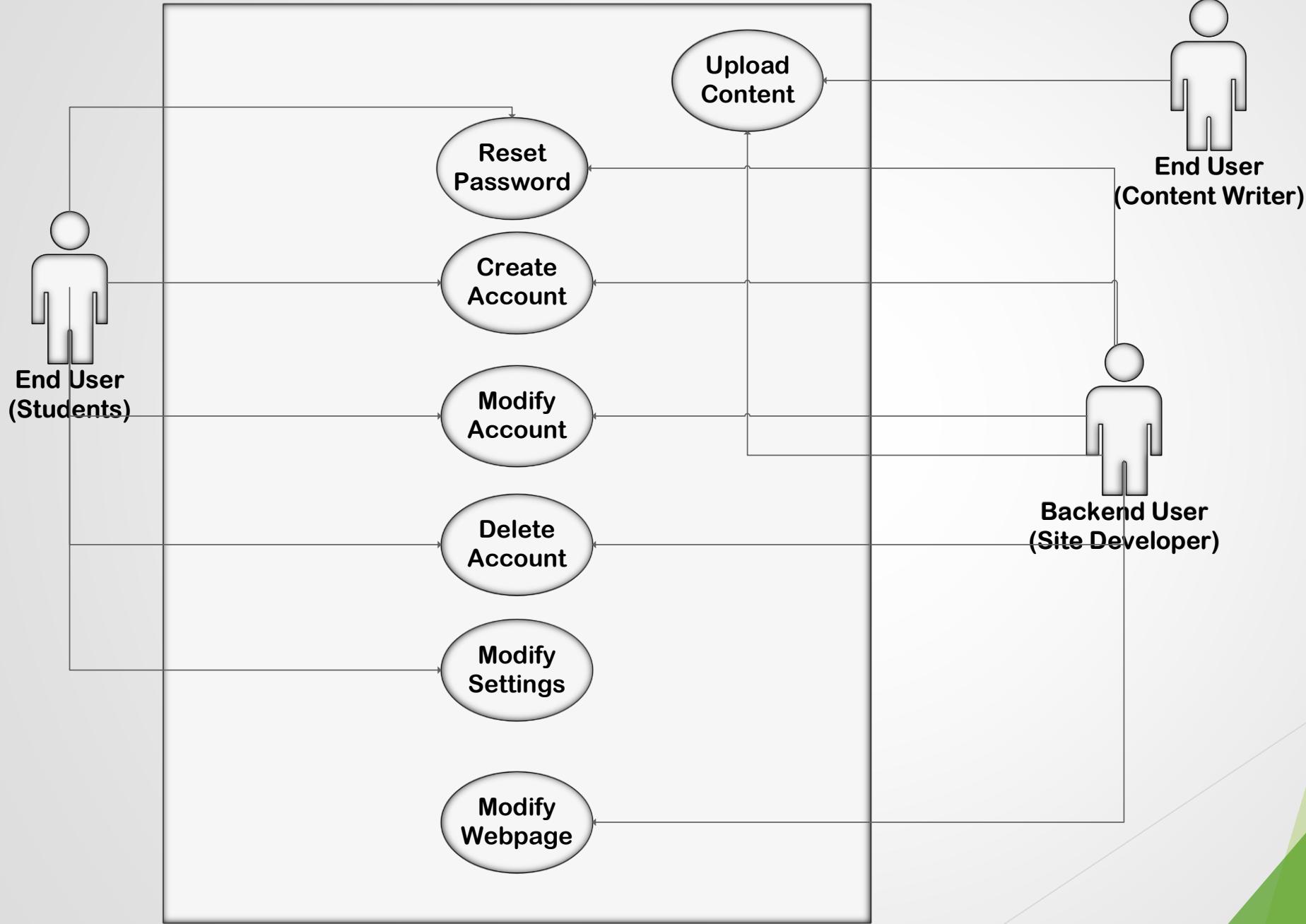
- Familiarization with development methodologies (8)
- Learning programming skills (160)
- Total= 168

# High-Level Project Timeline

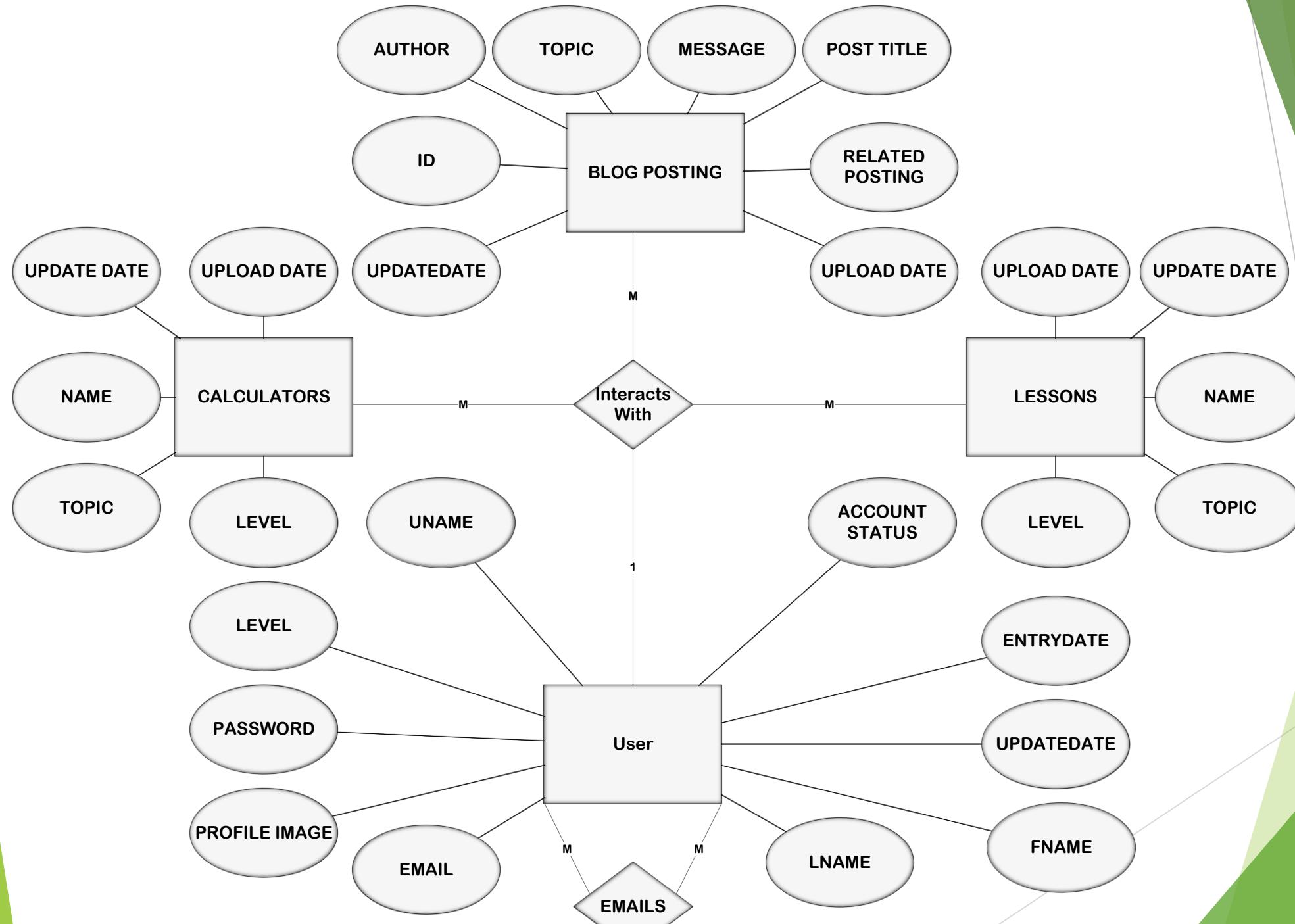
# Technical Details- Cloud Service

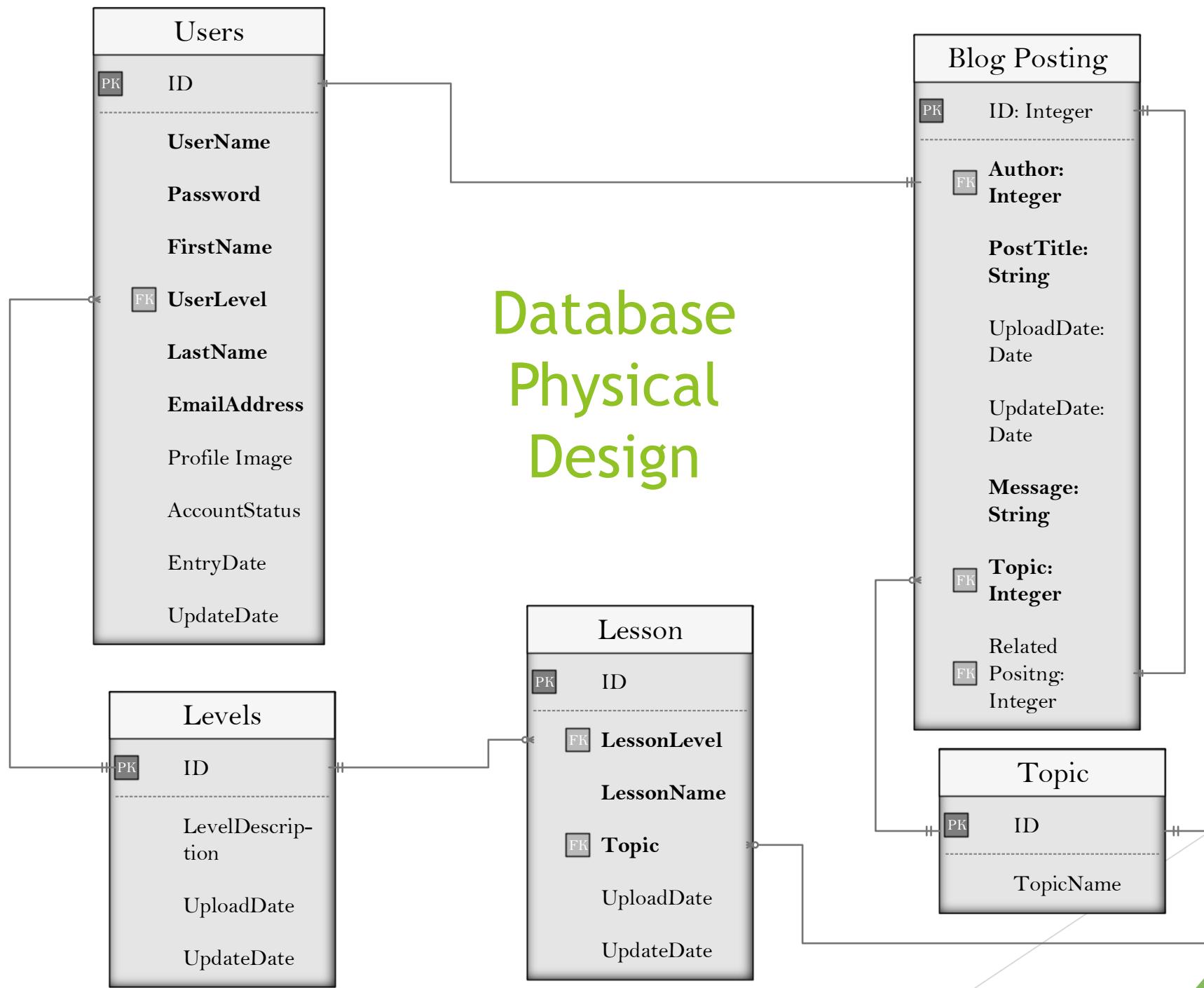
- ▶ Elastic platform
  - ▶ handles deployment
  - ▶ Capacity provisioning
  - ▶ Load balancing
  - ▶ Auto-scaling
- ▶ RDS
  - ▶ Relational Database Service
  - ▶ Auto-provision
  - ▶ Patching
  - ▶ Backups
  - ▶ Sql Server
- ▶ Domain Naming Services
- ▶ Code Commit
- ▶ IDE of choice
- ▶ C#
- ▶ VPC
  - ▶ Virtual Private cloud
  - ▶ Network Attached storage
- ▶ Security groups

# Product Use Cases



# Entity Relationship Diagram





DatabaseTable Implementation code

```
CREATE Database ICSFinances;
CREATE TABLE EDAVILA.ICSFinances.dbo.Users (
    UserId int IDENTITY(1,1) PRIMARY KEY NOT NULL,
    HashedPassword varchar(100) NOT NULL,
    UserName varchar(20)NOT NULL,
    FirstName varchar(20)NOT NULL,
    LastName varchar(20)NOT NULL,
    EmailAddress varchar(100)NOT NULL,
    UserLevel int NOT NULL,
    AccountStatus int,
    --Pro=1,Basic=0,Blocked=NULL
    EntryDate datetime NOT NULL,
    UpdateDate datetime NOT NULL
);
```

```
CREATE TABLE EDAVILA.ICSFinances.dbo.Levels (
```

```
    Id int IDENTITY(1,1) PRIMARY KEY NOT NULL,
    LevelDesc varchar(1000),
    EntryDate datetime NOT NULL,
    UpdateDate datetime NOT NULL
);
```

# Scripts

# Scripts (Continued)

```
CREATE TABLE EDAVILA.ICSFinances.dbo.Lessons (
    Id int IDENTITY(1,1) PRIMARY KEY NOT NULL,
    LessonName varchar(40) NOT NULL,
    SiteLocation varchar(100) NOT NULL,
    Lesson Topic int NOT NULL,
    EntryDate datetime NOT NULL,
    UpdateDate datetime NOT NULL);
```

```
CREATE TABLE EDAVILA.ICSFinances.dbo.Topic (
    Id int IDENTITY(1,1) PRIMARY KEY NOT NULL,
    TopicName varchar(40) NOT NULL,);
```

```
CREATE TABLE EDAVILA.ICSFinances.dbo.BlogPosting (
    Id int IDENTITY(1,1) PRIMARY KEY NOT NULL,
    UserID int NOT NULL,
    Topic int NOT NULL,
    PostTitle varchar(300)NOT NULL,
    Message varchar(3000)NOT NULL,
    RelatedPost int NOT NULL,
    EntryDate datetime NOT NULL,
    UpdateDate datetime NOT NULL);
```

```
USE [ICSFInances]
```

```
GO
```

```
INSERT INTO [dbo].[Users]
([HashedPassword]
,[UserName]
,[FirstName]
,[LastName]
,[EmailAddress]
,[UserLevel]
,[AccountStatus]
,[EntryDate]
,[UpdateDate])
VALUES
('testpassword1','testuser1','testuser1','testuser1','testuser@gmail.com',1,1,CURRENT_TIMESTAMP,CURRENT_TIMESTAMP)
```

```
GO
```

## Example Data Creating Users

```
SELECT *
```

```
FROM [dbo].[Users]
```

	UserId	HashedPassword	UserName	FirstName	LastName	EmailAddress	UserLevel	AccountStatus	EntryDate	UpdateDate
1	1	testpassword	testuser	testuser	testuser	testuser@gmail.com	1	1	2019-02-28 09:27:24.507	2019-02-28 09:27:24.507

```
USE [ICSFinances]
```

```
GO
```

```
INSERT INTO [dbo].[Users]
([HashedPassword]
,[UserName]
,[FirstName]
,[LastName]
,[EmailAddress]
,[UserLevel]
,[AccountStatus]
,[EntryDate]
,[UpdateDate])
VALUES
('testpassword1','testuser1','testuser1','testuser1','testuser@gmail.com',1,1,CURRENT_TIMESTAMP,CURRENT_TIMESTAMP)
```

```
GO
```

## Example Data Changing User Password

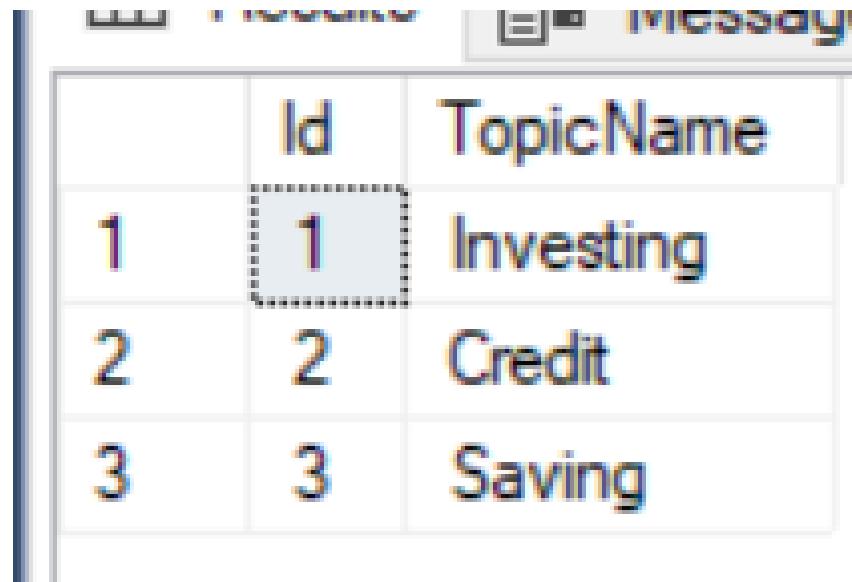
```
UPDATE [dbo].[Users]
SET [HashedPassword] = 'NewPassword'
,[UpdateDate] = CURRENT_TIMESTAMP
WHERE UserId = 1;
```

```
GO
```

Results | Messages

	UserId	HashedPassword	UserName	FirstName	LastName	EmailAddress	UserLevel	AccountStatus	EntryDate	UpdateDate
1	1	NewPassword	testuser	testuser	testuser	testuser@gmail.com	1	1	2019-02-28 09:27:24.507	2019-02-28 09:36:10.500

```
USE [ICSFinances]
GO
INSERT INTO [dbo].[Topic]
([TopicName])
VALUES
('Investing'),
('Credit'),
('Saving')
GO
SELECT *
FROM [dbo].[Topic]
```



	Id	TopicName
1	1	Investing
2	2	Credit
3	3	Saving

# Setting Up Topics

# Levels

```
INSERT INTO ICSFinances.dbo.Levels
([XP]
,[EntryDate]
,[UpdateDate])
VALUES
(0 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(50 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(150 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(300 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(500 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
-- Bronze: 1 Day of ad free experience & stock alerts
(1000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(2000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(3000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(4000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(5000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
--Silver: 1 week of ad free experience & stock alerts
(6500 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(8000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(10000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(13000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(15000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
--Gold: 1 month of ad free experience & stock alerts
(20000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(100000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(500000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(750000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
(100000000 , CURRENT_TIMESTAMP,CURRENT_TIMESTAMP)
--Platinum: Lifetime of ad free experience & stock alerts
```

	LevelID	XP	EntryDate
1	1	0	2019-03-10 21:50:06.210
2	2	50	2019-03-10 21:50:06.210
3	3	150	2019-03-10 21:50:06.210
4	4	300	2019-03-10 21:50:06.210
5	5	500	2019-03-10 21:50:06.210
6	6	1000	2019-03-10 21:50:06.210
7	7	2000	2019-03-10 21:50:06.210
8	8	3000	2019-03-10 21:50:06.210
9	9	4000	2019-03-10 21:50:06.210
10	10	5000	2019-03-10 21:50:06.210
11	11	6500	2019-03-10 21:50:06.210
12	12	8000	2019-03-10 21:50:06.210
13	13	10000	2019-03-10 21:50:06.210
14	14	13000	2019-03-10 21:50:06.210
15	15	15000	2019-03-10 21:50:06.210
16	16	20000	2019-03-10 21:50:06.210
17	17	100000	2019-03-10 21:50:06.210
18	18	500000	2019-03-10 21:50:06.210
19	19	750000	2019-03-10 21:50:06.210
20	20	100000000	2019-03-10 21:50:06.210

# Lessons

```
INSERT INTO [dbo].[Lessons]
([LessonName]
,[SiteLocation]
,[LessonTopic]
,[EntryDate]
,[UpdateDate])
```

## VALUES

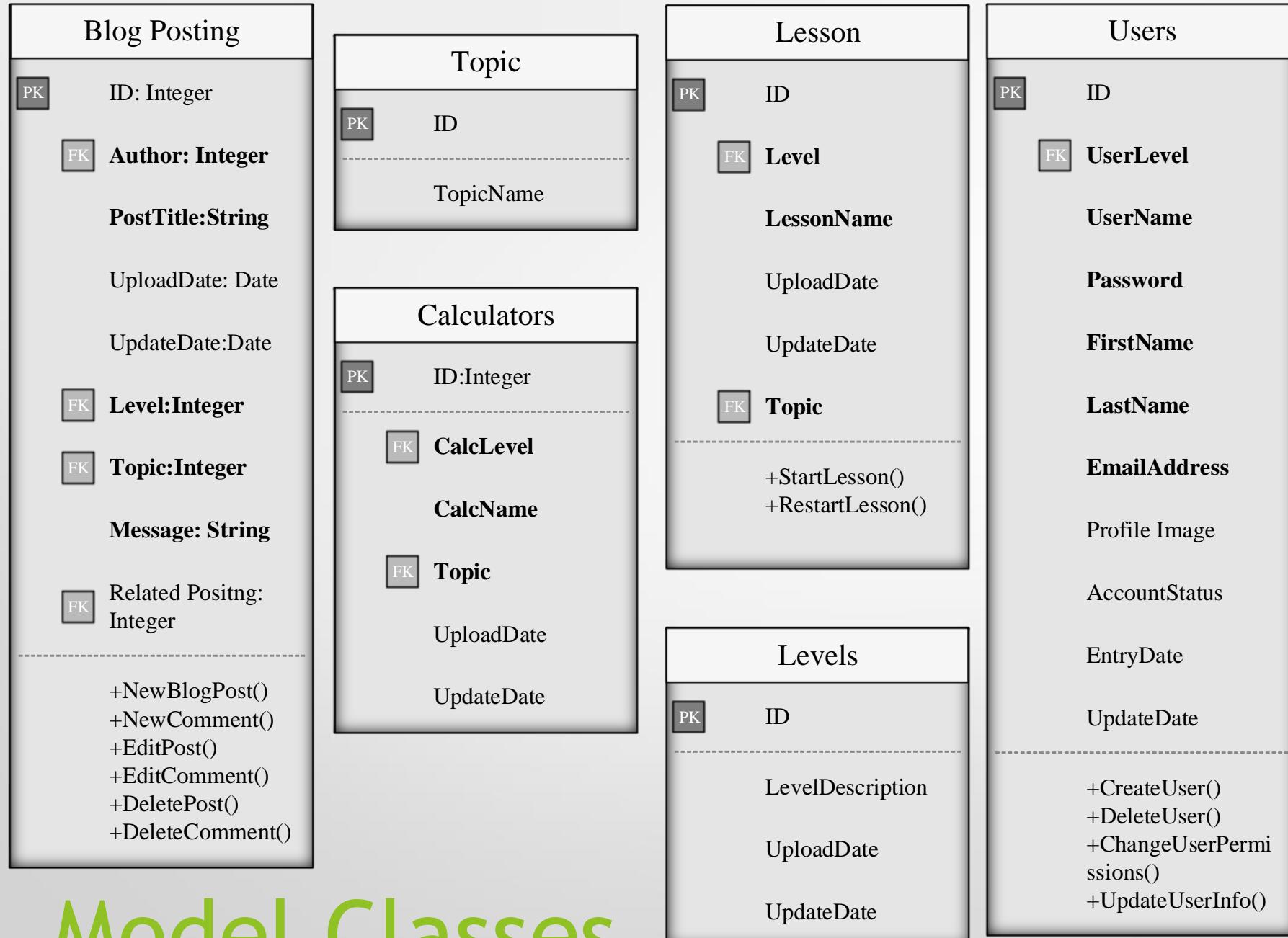
```
('What is investing?','www.ICSF.com/urlexample1',1,CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
('Should I invest?','www.ICSF.com/urlexample1',1,CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
('What is credit?','www.ICSF.com/urlexample1',2,CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
('Credit Score ranges?','www.ICSF.com/urlexample2',2,CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
('What are savings?','www.ICSF.com/urlexample2',3,CURRENT_TIMESTAMP,CURRENT_TIMESTAMP),
('How much should I save?','www.ICSF.com/urlexample2',3,CURRENT_TIMESTAMP,CURRENT_TIMESTAMP)
```

	Id	LessonName	SiteLocation	LessonTopic	EntryDate	UpdateDate
1	1	What is investing?	www.ICSF.com/urlexample1	1	2019-03-06 04:59:08.490	2019-03-06 04:59:08.490
2	2	Should I invest?	www.ICSF.com/urlexample1	1	2019-03-06 04:59:08.490	2019-03-06 04:59:08.490
3	3	What is credit?	www.ICSF.com/urlexample1	2	2019-03-06 04:59:08.490	2019-03-06 04:59:08.490
4	4	Credit Score ranges?	www.ICSF.com/urlexample2	2	2019-03-06 04:59:08.490	2019-03-06 04:59:08.490
5	5	What are savings?	www.ICSF.com/urlexample2	3	2019-03-06 04:59:08.490	2019-03-06 04:59:08.490
6	6	How much should I save?	www.ICSF.com/urlexample2	3	2019-03-06 04:59:08.490	2019-03-06 04:59:08.490

# Blog Posts

```
INSERT INTO [dbo].[BlogPosting]
([UserID]
,[Topic]
,[PostTitle]
,[MessageString]
,[EntryDate]
,[UpdateDate])
VALUES
(1
,1
,'WOW!'
,'I am learning so much!ICSF Rocks!'
,CURRENT_TIMESTAMP,CURRENT_TIMESTAMP)
```

	Id	UserID	Topic	PostTitle	Messagestring	RelatedPost	EntryDate	UpdateDate
1	1	1	WOW!	I am learning so much!ICSF Rocks!		NULL	2019-03-06 05:39:24.207	2019-03-06 05:39:24.207



# Model Classes

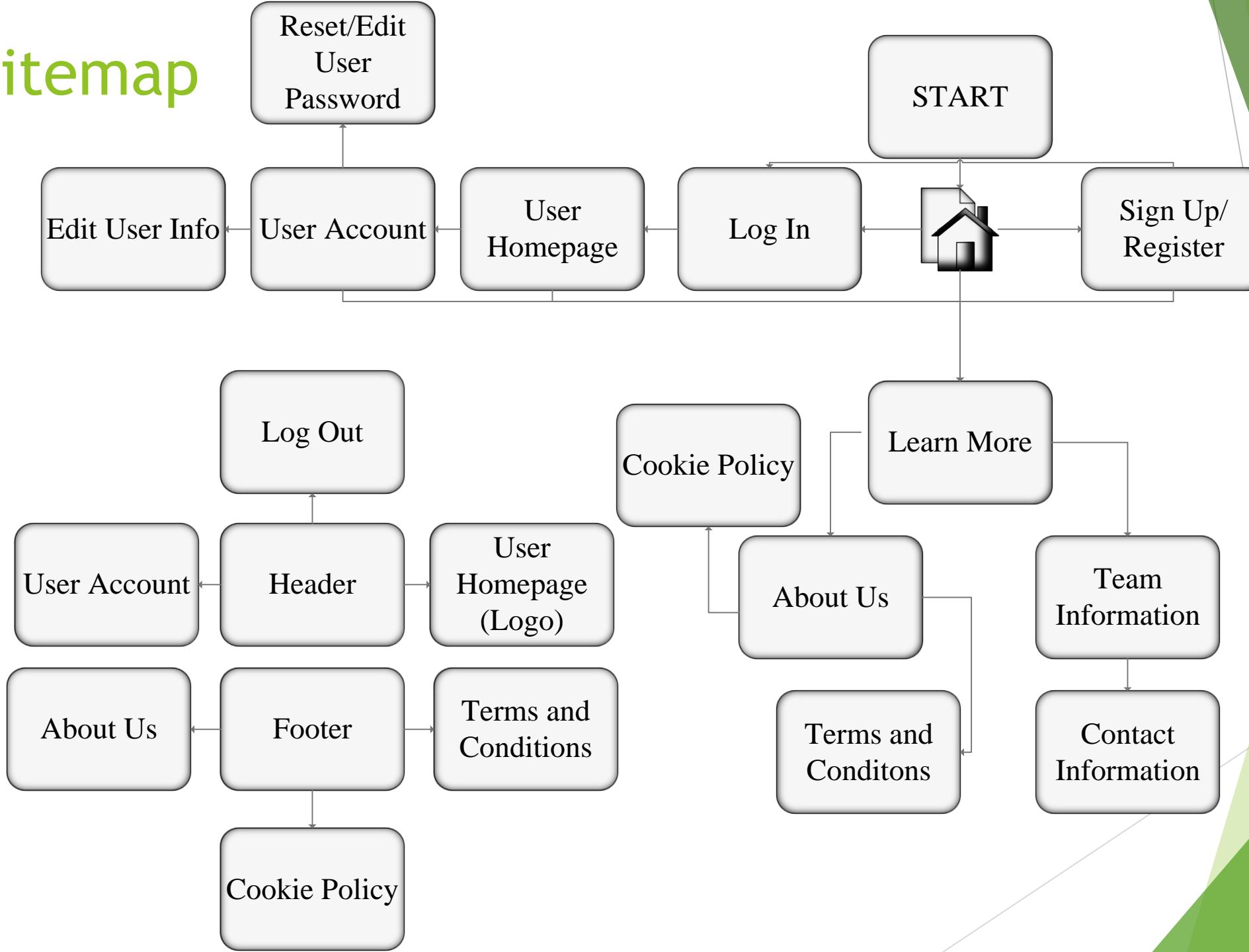
# Functional Specifications

- ▶ User(student) functions
  - ▶ Create an account
  - ▶ Delete their account
  - ▶ Click on logo to return to homepage
  - ▶ Click on links
  - ▶ Log in
  - ▶ Log out

# Non-Function Specifications Excerpts

- Security
  - Performance
  - Availability
  - Recovery
  - Compatibility
  - Maintainability
  - Usability
  - Localization
- 
- ▶ The system will be easy to use.
    - ▶ Log in will be visible
    - ▶ Create an account will be visible
  - ▶ Text will be legible
  - ▶ Site must look right on mobile devices

# Sitemap



# Mock Pages

- ▶ The Following page are NOT operational.
- ▶ These pages have been put together using an image editor and does not contain functionality.
- ▶ These pages may be subject to change and will most likely look different at the time of website launch.

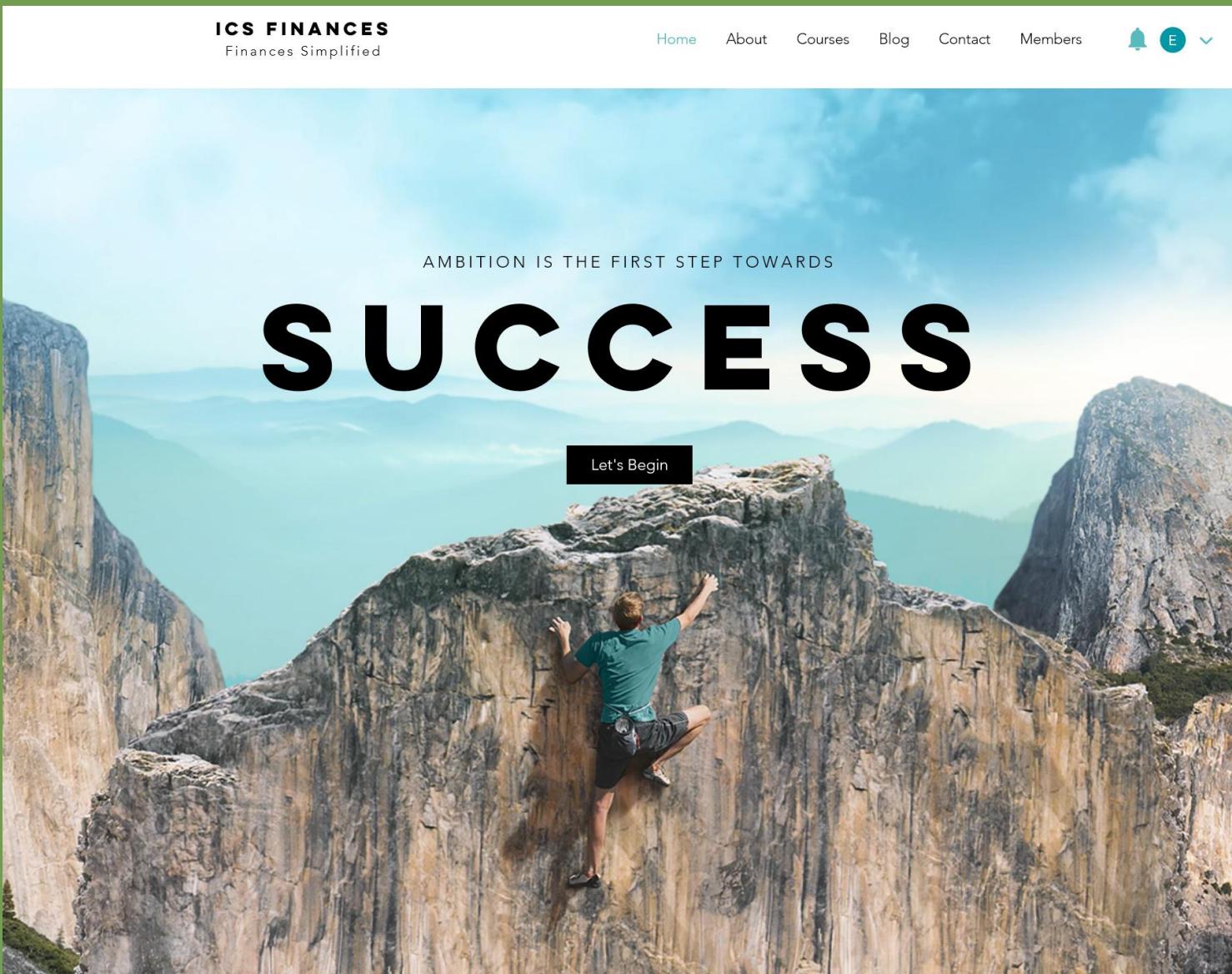
# Landing Page

**ICS FINANCES**  
Finances Simplified

Home About Courses Blog Contact Members

AMBITION IS THE FIRST STEP TOWARDS  
**SUCCESS**

Let's Begin

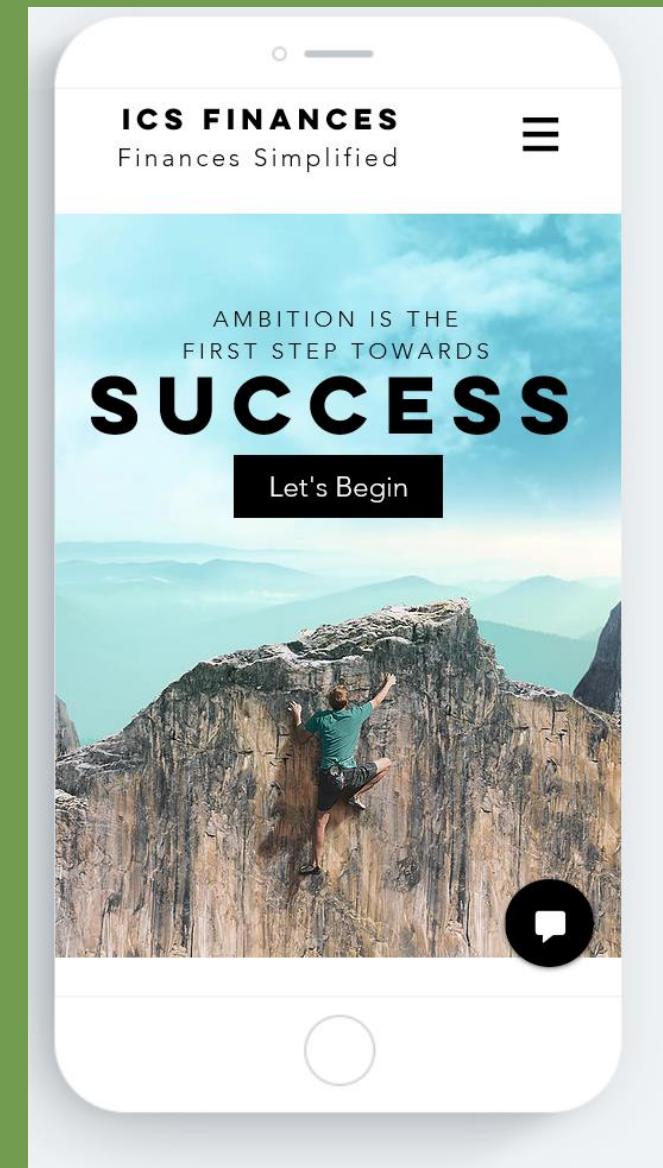
A photograph of a person climbing a steep, light-colored rock face. The climber is positioned on the left side of the frame, facing away from the camera towards the right. The background shows more rugged mountain peaks under a clear blue sky with some wispy clouds. Overlaid on the image is a large, bold black text "SUCCESS". Above "SUCCESS", in smaller white capital letters, is the phrase "AMBITION IS THE FIRST STEP TOWARDS". At the bottom left, there is a black rectangular button with the white text "Let's Begin".

A climber on a rocky cliff face with a success message.

**ICS FINANCES**  
Finances Simplified

AMBITION IS THE FIRST STEP TOWARDS  
**SUCCESS**

Let's Begin

A screenshot of a smartphone displaying the same landing page as the desktop version. The screen shows the "ICS FINANCES" logo, the tagline "Finances Simplified", the navigation menu, and the main headline "AMBITION IS THE FIRST STEP TOWARDS SUCCESS" with the "Let's Begin" button. In the bottom right corner of the phone's screen, there is a small black circular icon containing a white speech bubble symbol, likely representing a comment or message feature. The phone is shown against a white background.

# Landing Page(Continued)

**ICS FINANCES**  
Finances Simplified

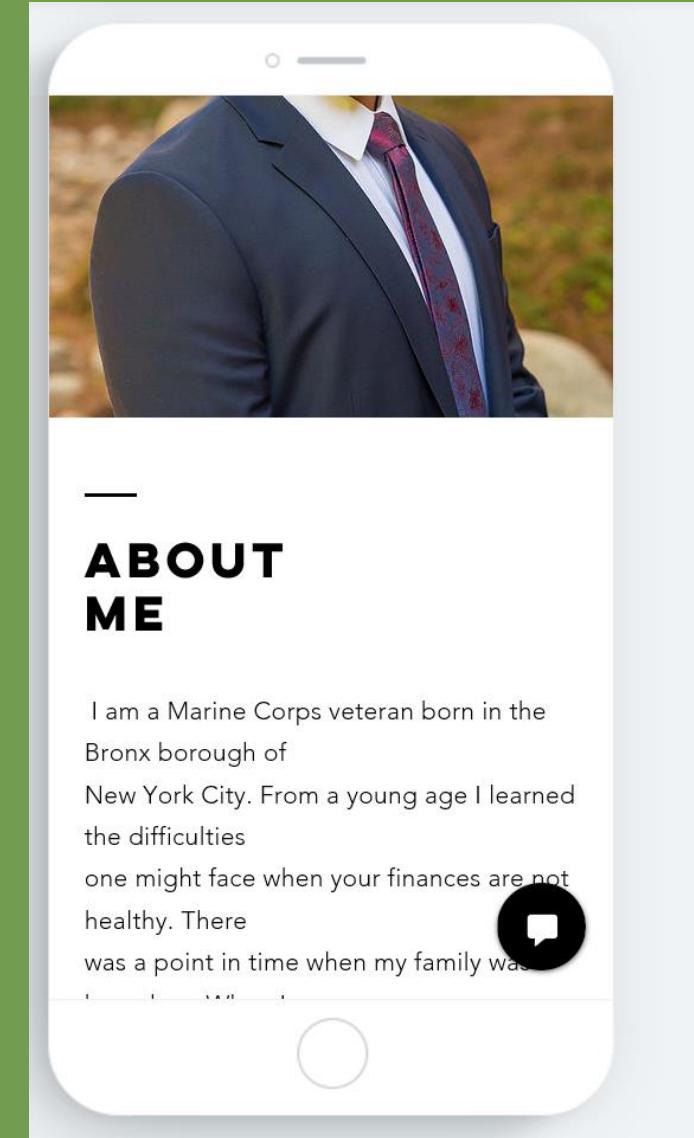
Home About Courses Blog Contact Members



**ABOUT ME**

I am a Marine Corps veteran born in the Bronx borough of New York City. From a young age I learned the difficulties one might face when your finances are not healthy. There was a point in time when my family was homeless. When I was only 8 years old I promised myself that I would never allow my family to live through situations like the ones we found ourselves in as I was growing up. Since then I have served in the Marine Corps, earned a degree, learned to program, bought my family a home, set up a retirement fund, saved up enough to cover expenses for a year, learned to day trade, achieved an 800+ credit score, and so much more. All this was accomplished by the age of 22. If I can do it, so can you!

[Read More](#)



**ABOUT ME**

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# Landing Page(Continued)

The screenshot shows a website landing page with a light blue background featuring a mountain landscape. At the top left is the logo 'ICS FINANCES' with the tagline 'Finances Simplified'. The top right contains navigation links: Home, About, Courses, Blog, Contact, Members, and a user icon with a bell and the letter 'E'. Below the header, a section titled 'HOW I CAN HELP YOU' is centered. The main content discusses the challenges of navigating the financial world and the personal finance journey, emphasizing that it's now free. A 'Start a Course' button is at the bottom.

**ICS FINANCES**  
Finances Simplified

Home About Courses Blog Contact Members

E

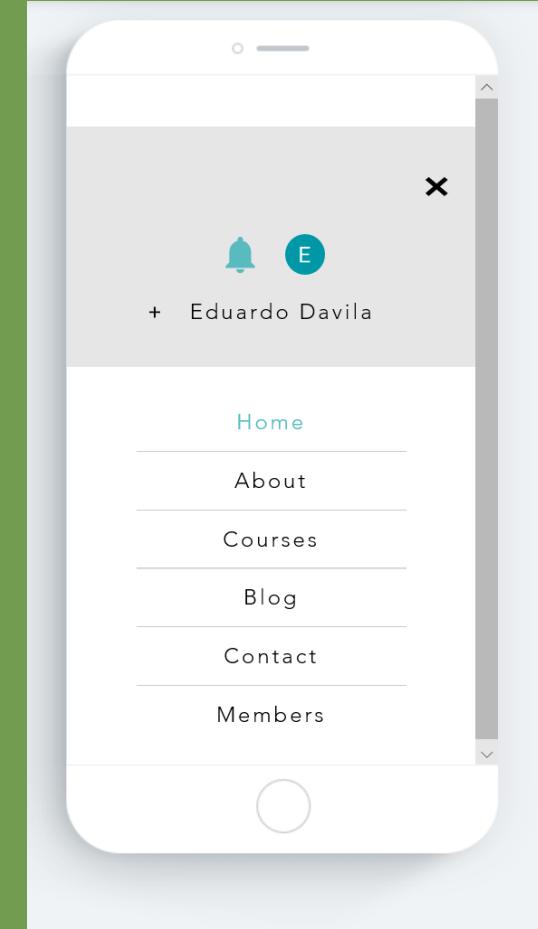
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## HOW I CAN HELP YOU

In the current day we live in, the financial world can be a real nightmare to navigate through. How many of us actually feel comfortable with our finances? You might find yourself asking, have I saved enough? How do I improve my credit score? Is it hard to invest my money? These are all questions I asked myself at one point. I spent years learning how personal finance worked. Unfortunately I learned through trial and error but why should we have to learn that way? Why can't someone just explain these crazy concepts and ridiculous words to us? Well I have chosen to do exactly that. Here's the best part. It is completely free!

Start a Course

# Header



# Footer

---

**CONTACT ME**

999 Freedom Road  
San Diego, CA 92126

Tel: 123-456-7890  
Fax: 123-456-7890

[info@ICSFinances.com](mailto:info@ICSFinances.com)

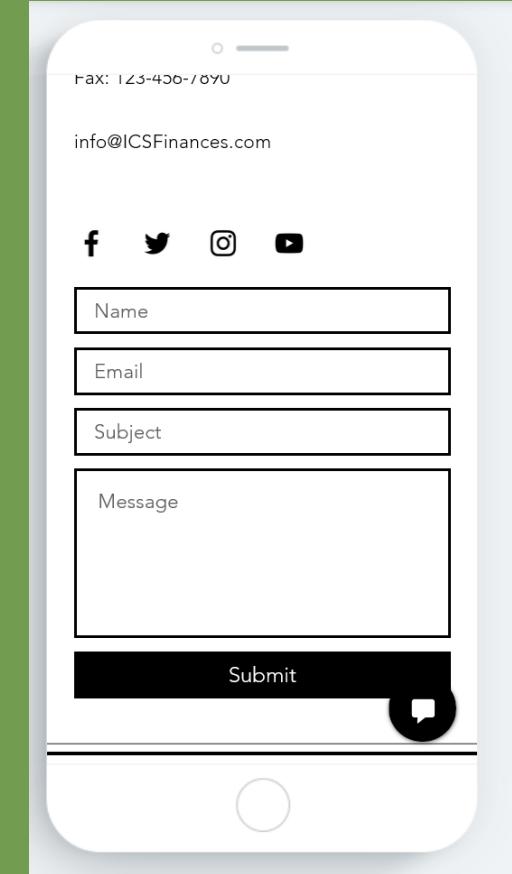
Name

Email

Subject

Message

Submit



# Courses

**ICS FINANCES**  
Finances Simplified

Home About Courses Blog Contact Members

**INVESTING**

**CREDIT**

**SAVINGS**

**CONTACT ME**

999 Freedom Road  
San Diego, CA 92126

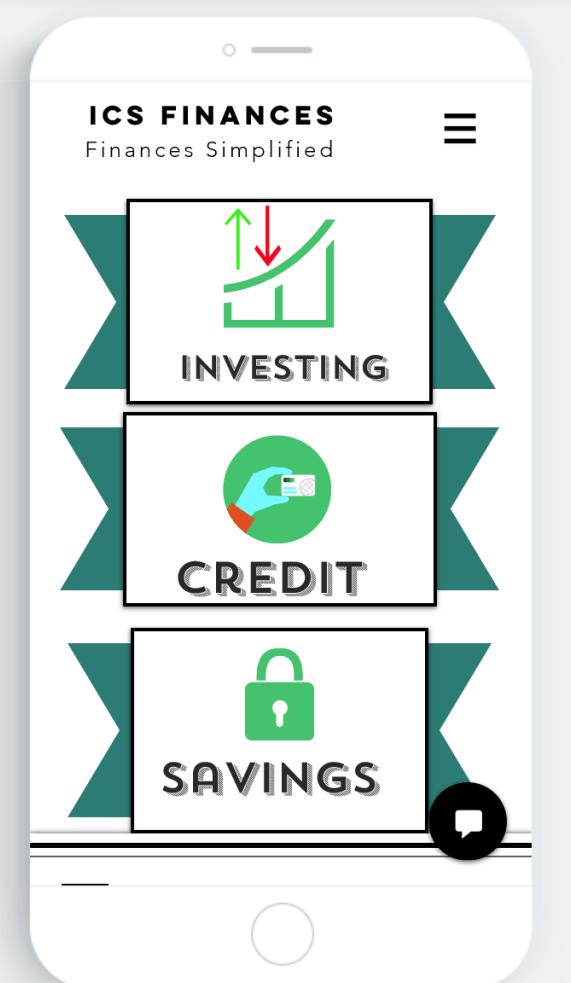
Tel: 123-456-7890  
Fax: 123-456-7890

info@ICSFinances.com

f t i y

Name   
Email   
Subject   
Message

Submit



# QUESTIONS COMMENTS CONCERNS



What credit score do I need to buy a house?

👁 1 Write a comment



How soon should I start investing?

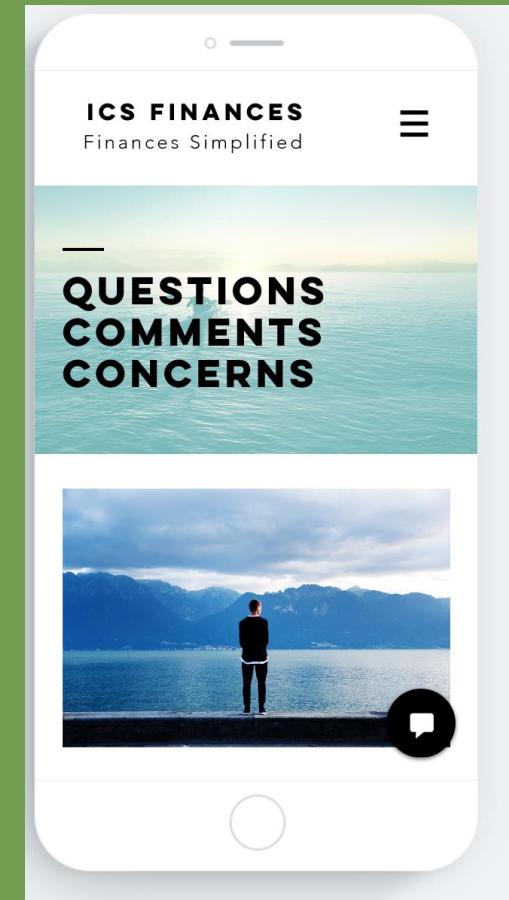
👁 0 Write a comment



What is the best credit card?

👁 0 Write a comment

# Blogs & Threads

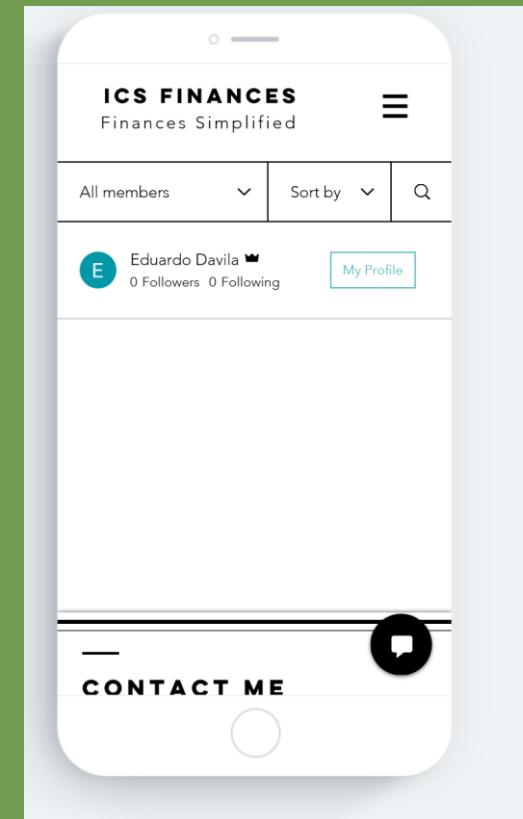


# Members Page

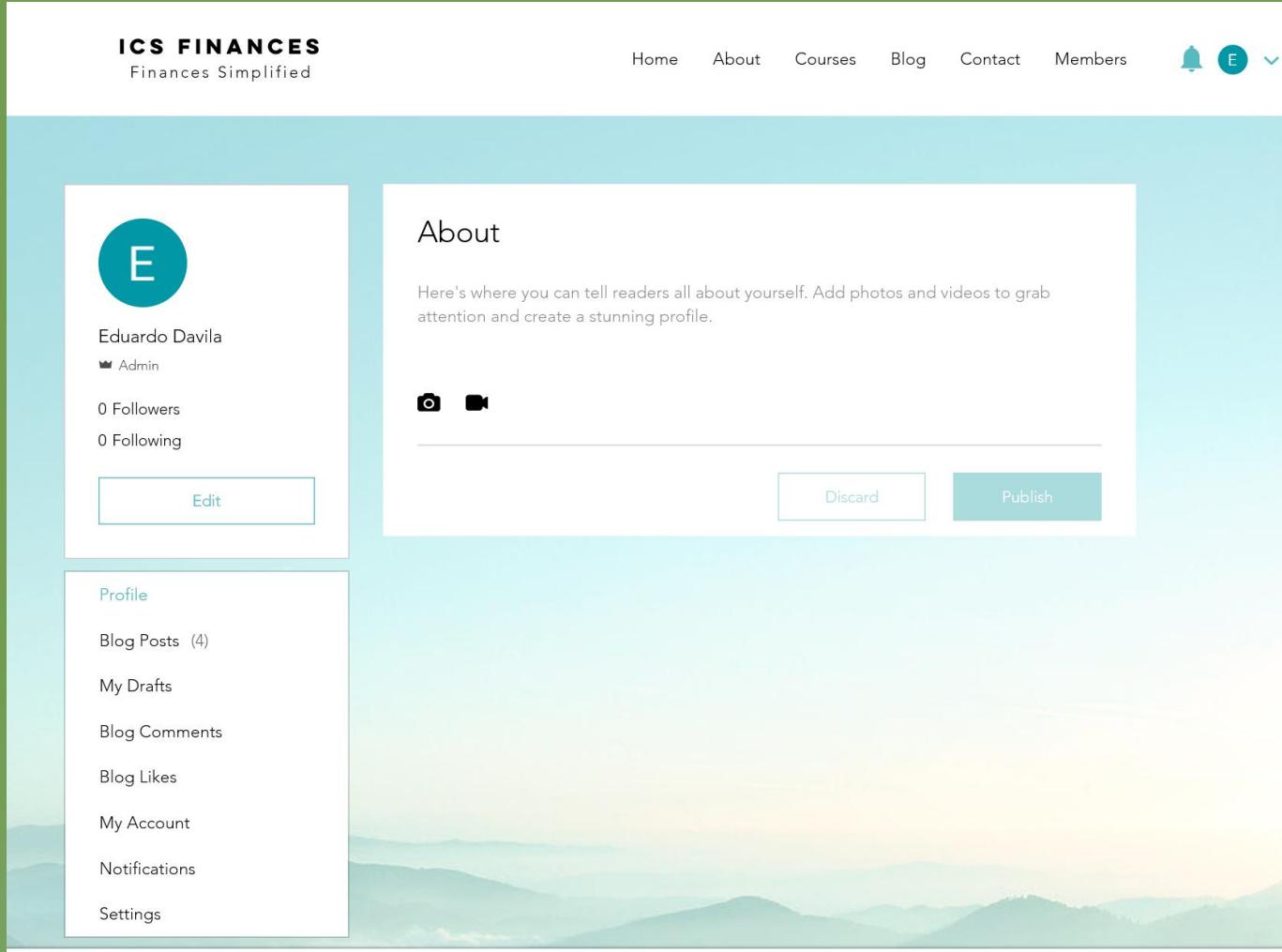
The screenshot shows the 'Members' page of the ICS FINANCES website. At the top left is the logo 'ICS FINANCES Finances Simplified'. The top navigation bar includes links for Home, About, Courses, Blog, Contact, and Members. A user profile icon with the letter 'E' is visible in the top right, along with a bell icon and a dropdown menu.

Below the navigation, there are filters 'All members' and 'Sort by: Default'. To the right is a search bar with the placeholder 'Find a member...' and a page number '1'. There are two grid icons for filtering results.

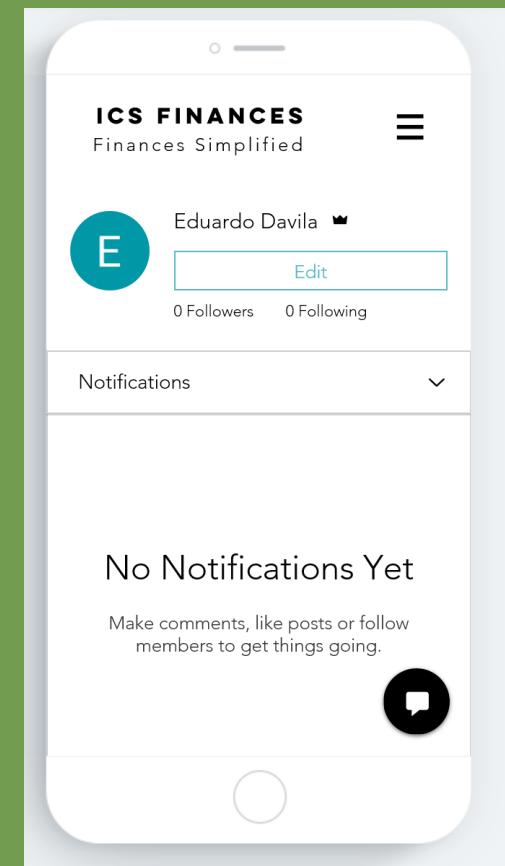
The main content area displays a single member profile card for 'Eduardo Davila'. The card features a large teal circular icon with the letter 'E', the member's name, a small profile picture, and follower counts of 0 Followers and 0 Following. A 'My Profile' button is at the bottom.



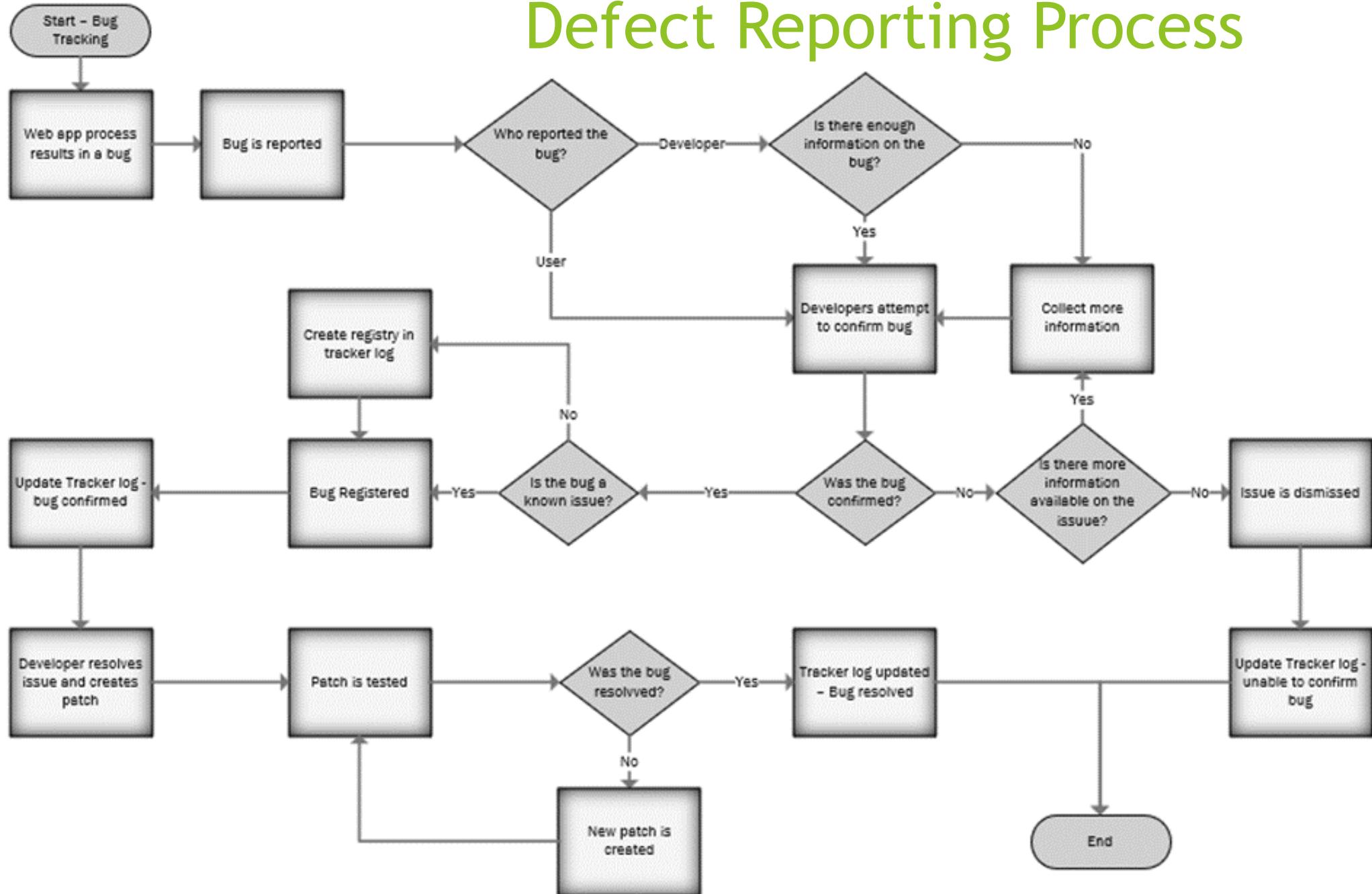
# User Account Page



The screenshot shows the user account page for a platform named "ICS FINANCES". The top navigation bar includes links for Home, About, Courses, Blog, Contact, Members, and a user icon. The main content area features a profile section for "Eduardo Davila" (Admin), showing 0 Followers and 0 Following, with an "Edit" button. Below this is an "About" section with a placeholder for adding photos and videos, featuring "Discard" and "Publish" buttons. A sidebar on the left provides links to Profile, Blog Posts (4), My Drafts, Blog Comments, Blog Likes, My Account, Notifications, and Settings.



# Defect Reporting Process



# Usability Testing

- ▶ Task 1 - Navigate to the website's Sign-up page and create an account.
- ▶ Task 2 - Navigate to the website's Homepage and login in.
- ▶ Task 3 - Navigate to your welcome page.
- ▶ Task 4 - Navigate to your account page
- ▶ Task 5 - From your account page reset your password.
- ▶ Task 6 - From your account page change your address.
- ▶ Task 7 - Log out and log back in with your new password.

The background features a large, abstract graphic element in the upper right corner composed of several overlapping triangles in various shades of green, from light lime to dark forest green.

Questions?  
Comments?  
Concerns?