

INSTITUTO SUPERIOR TÉCNICO

# SECOND ASSESSMENT

TWEENTIES

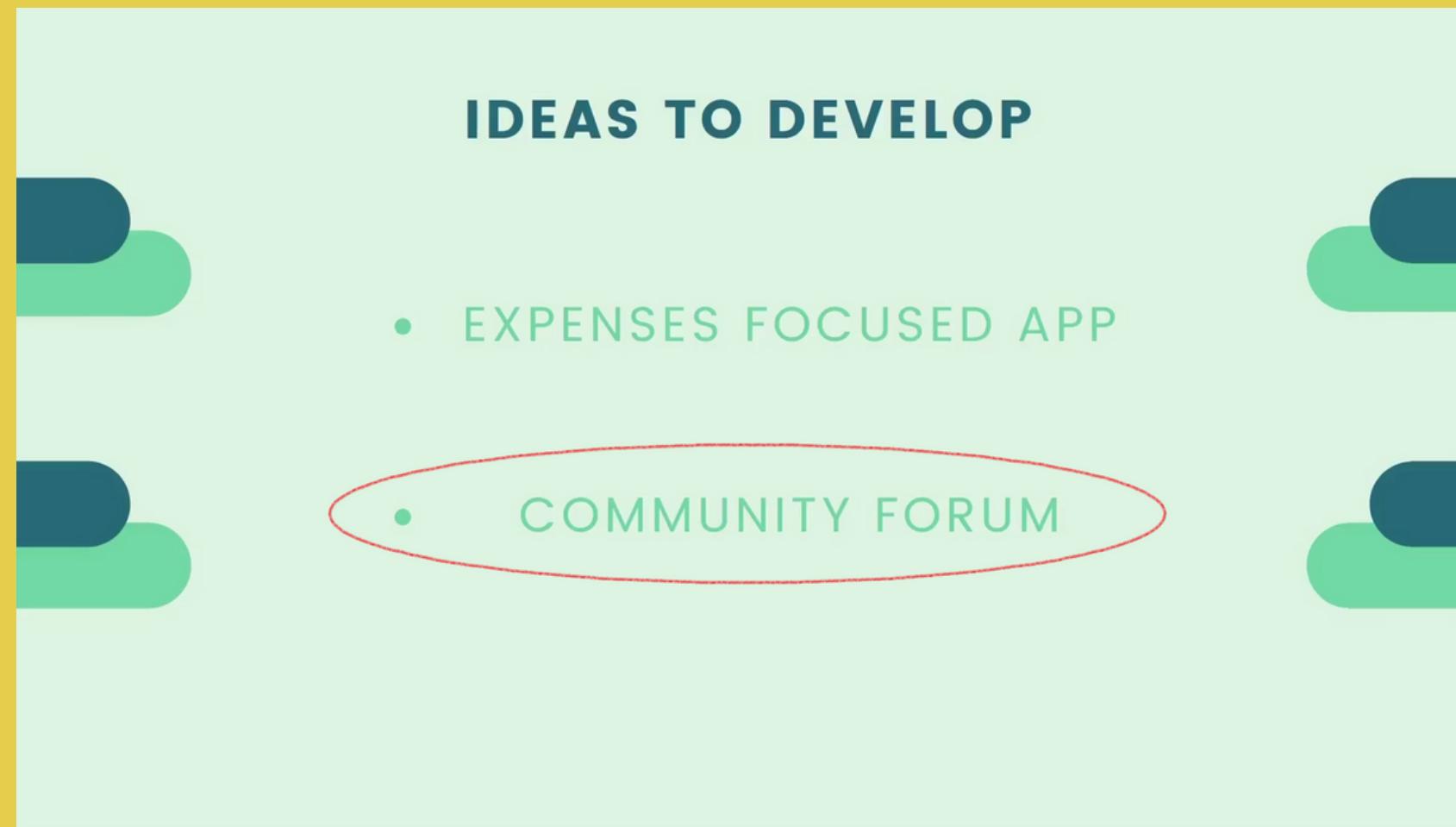
TEAM20

# CHOOSING THE IDEA

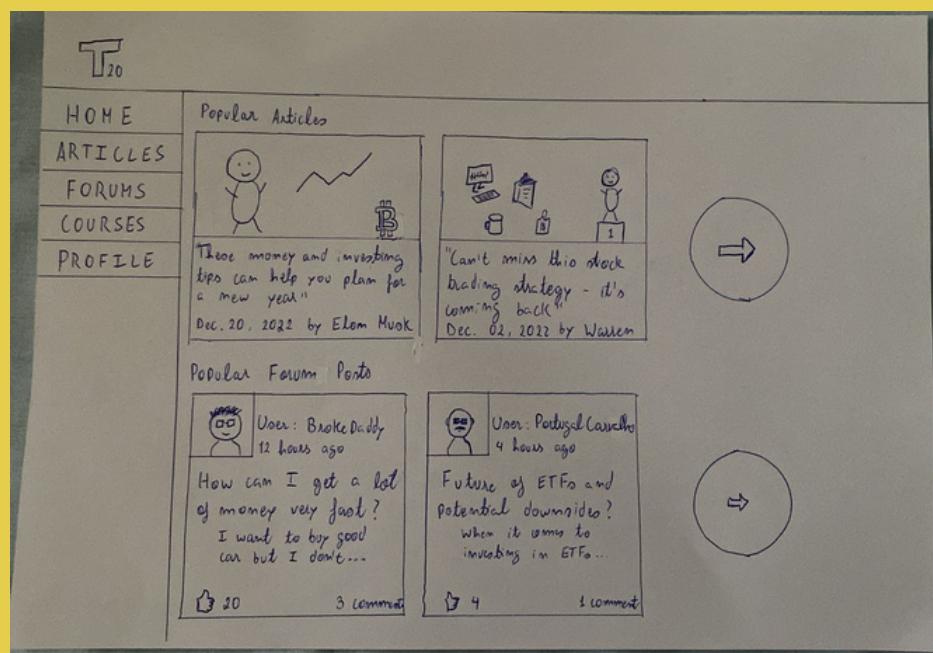
We chose to create a prototype of our community forum.

This idea addresses many concerns that the users raised during the interviews.

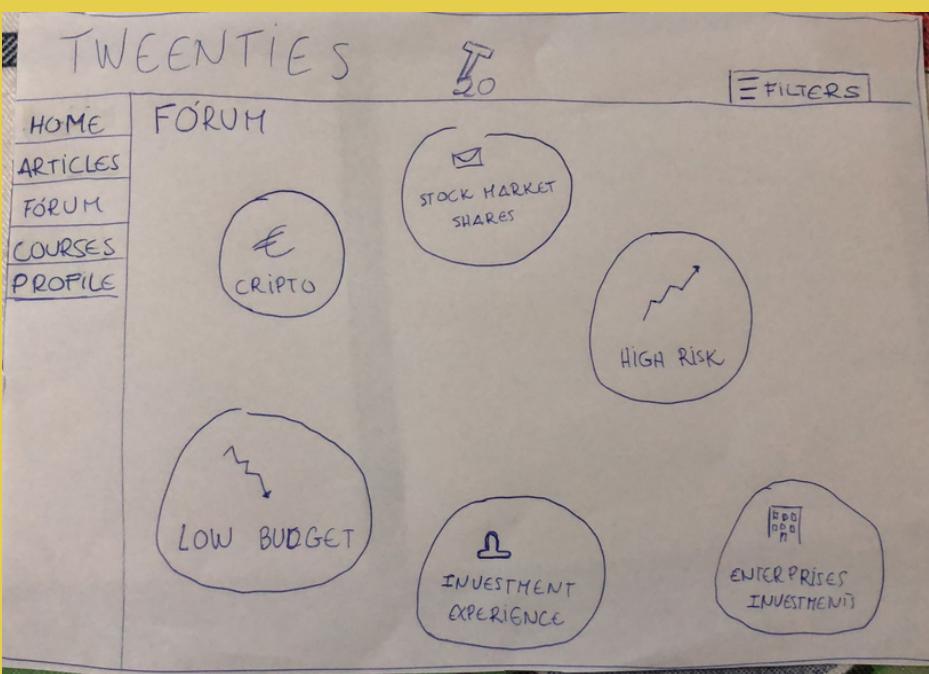
For example, the 'forum' can be a great place to find accurate financial information and real data from the user experience.



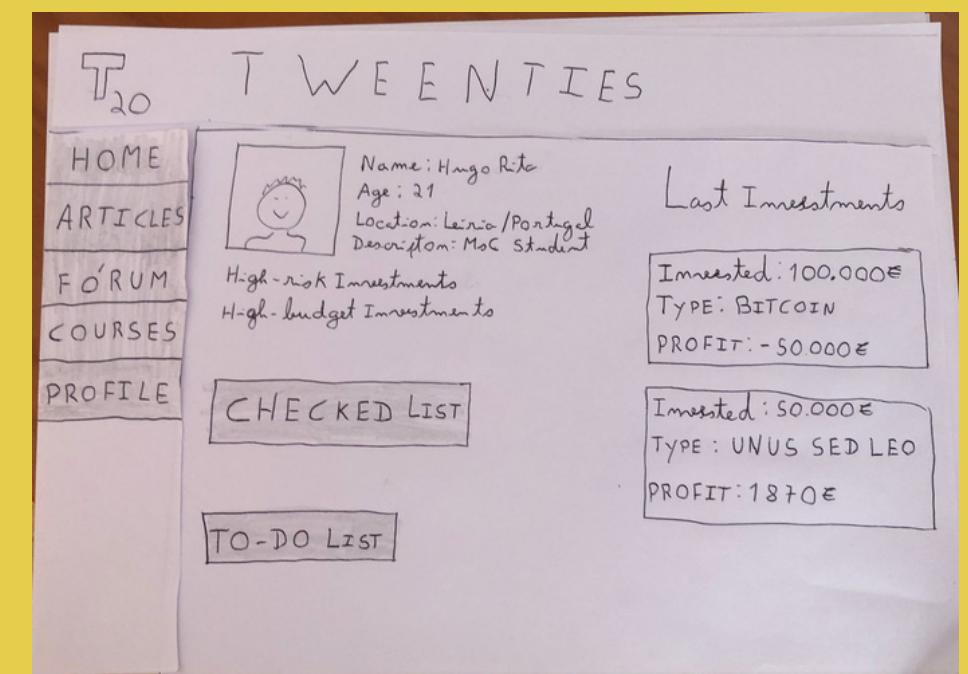
# LOW FIDELITY PROTOTYPE



Home Page



Forum



Profile

# MEDIUM FIDELITY PROTOTYPE



The Home Page features a dark blue header with the 'TWEENTIES' logo. A vertical navigation menu on the left includes 'Home' (highlighted in yellow), 'Articles', 'Forum', 'Courses', and 'Profile'. The main content area displays three articles: 'Financing Real Estate Investment Property' (with a graph and house icon), 'My 12 money movies of Christmas' (with a film strip icon), and 'Financial Literacy and Inclusion Campaign' (with a group of people icon). Below these are 'Popular Forum Posts' showing user profiles for 'Fernando Pessoa', 'Wednesday', and 'Grinch'.

Home Page



The Forum page has a similar layout to the Home page. It includes a vertical navigation menu with 'Home' (yellow), 'Articles', 'Forum' (highlighted in yellow), 'Courses', and 'Profile'. The main area is titled 'Forum' and contains circular filters for 'Crypto' (Bitcoin icon), 'Stock Market Shares' (bar chart icon), 'High Risk' (upward arrow icon), 'Low Budget' (downward arrow icon), 'Investment Experience' (person icon), and 'Enterprises Investment' (building icon).

Forum



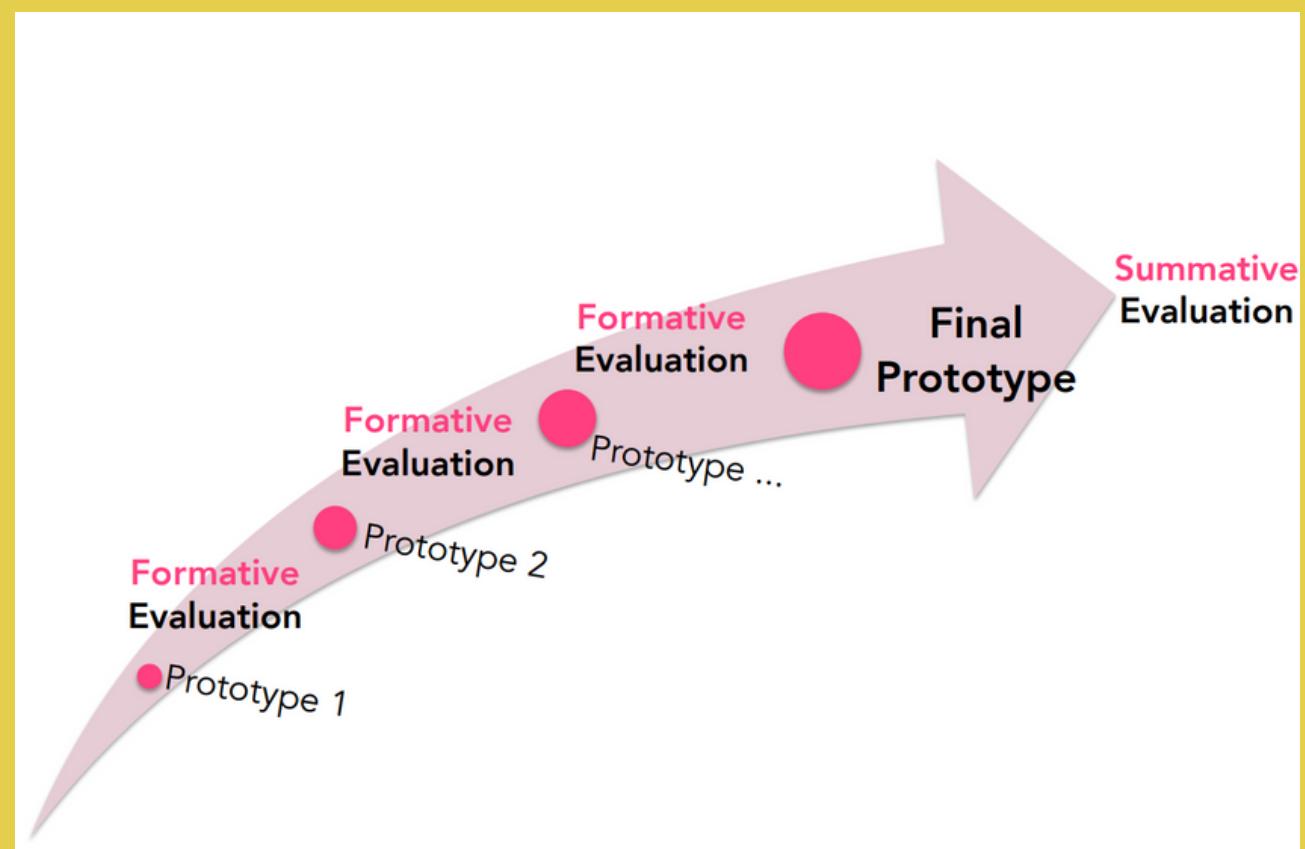
The Profile page shows a user profile for 'Hugo Rita' (Age: 21, Location: Leiria/Portugal, Description: MSC Student). It includes sections for 'Last Investments' (Bitcoin investment of 100.000€ with a -50.000€ profit) and 'Investments' (High-risk and High-Budget categories). Below these are 'Checked List' and 'To-Do List' buttons.

Profile

# EVALUATING THE DESIGN

## Tasks:

- Read a five minute article about real estate and mark it as read;
- Go to a forum about low-risk investment experiences and add a comment;
- Reach out to any course to start learning;
- Find out how many articles you have read.



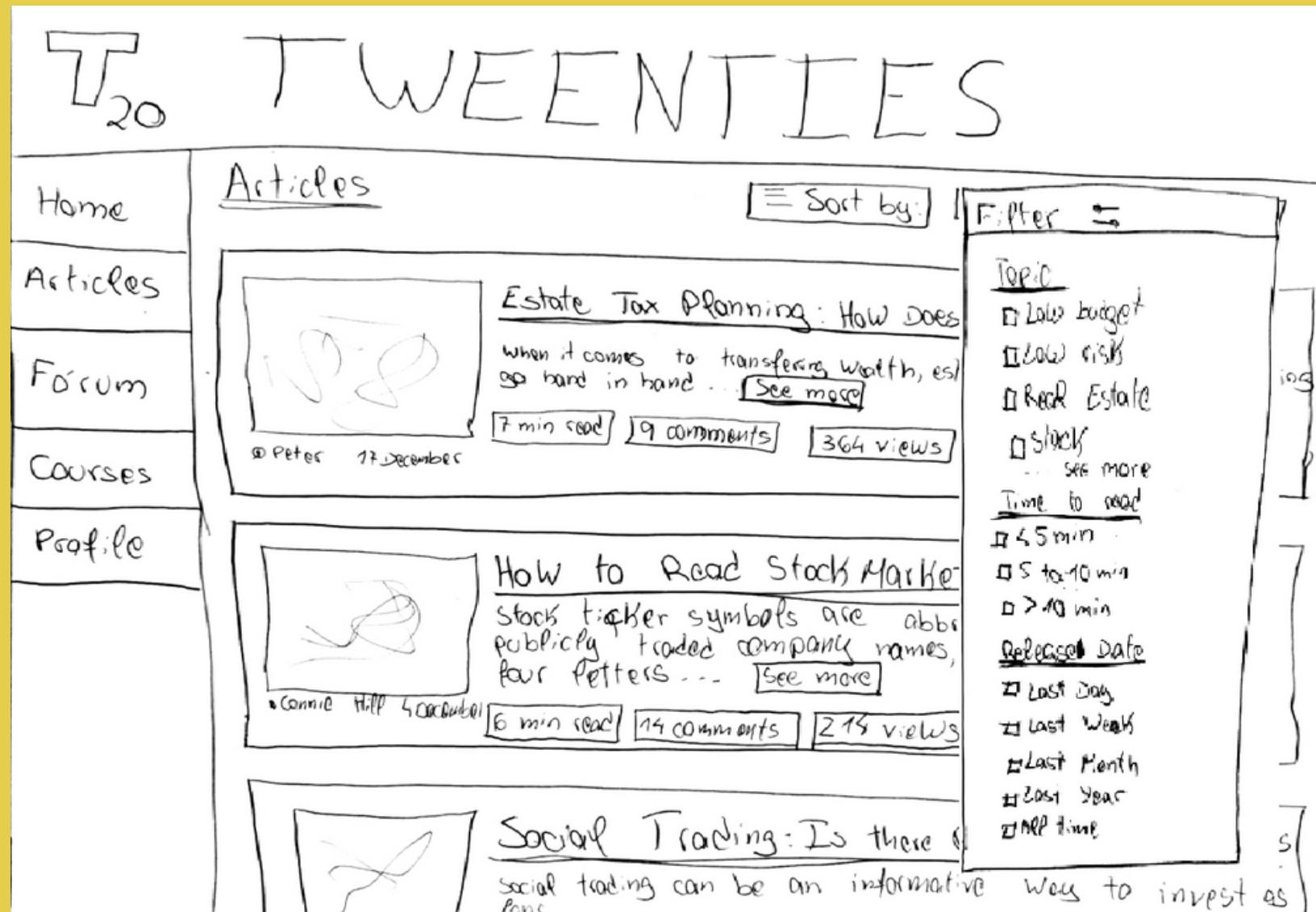
# **ARTICLES TASK**

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**READ AN ARTICLE ABOUT REAL ESTATE UNDER 5 MINUTES AND  
MARK IT AS READ**



# LOW-FIDELITY



In the filter of articles in the low fidelity prototype each time the users clicked on a filter the page was going to change. Since the task given required two filters the users dislike that a lot.

# MID-FIDELITY

The image shows a mid-fidelity prototype of a website. On the left, there is a vertical sidebar menu with the following items: LOGO, Home, Articles (highlighted in yellow), Forum, Courses, and Profile. The main content area features a large title "TWEENTIES" and a sub-section "Articles". Below this, there are two article cards. The first article is titled "Estate Tax Planning: How does your sti" and has a snippet: "When it comes to transferring wealth, estate planning and tax planning go hand in hand. It's important to understand how your assets will be distributed and how taxes will affect the process. In this article, we'll explore some key concepts and provide tips for creating an effective estate plan." It includes stats: 7 min read, 24 comments, 365 views, and a share icon. The second article is titled "How to read Stock Market Ticker Symb" and has a snippet: "Stock ticker symbols are abbreviated versions of publicly traded company names, often consisting of four letters...". It also includes stats: 7 min read, 24 comments, 365 views, and a share icon. To the right of the main content is a sidebar with a "Search" bar and a "Filters" button. The "Filters" sidebar contains three sections: "Topic" (with checkboxes for Low Budget, Low Risk, Real estate, and Stock), "Time to read" (with checkboxes for < 5 min, 5 to 10 min, and > 10 min), and "Release Date" (with checkboxes for Last Week, Last Month, and All Time). At the bottom of the sidebar is an "Apply" button.

In the mid fidelity prototype we insert a button "Apply" for the user to press when he was done with the filters and we received good feedback.

# LOW-FIDELITY

The sketch illustrates a user interface for a website titled "T<sub>20</sub> TWEENTIES". On the left is a vertical sidebar with links: Home, Articles, Forum, Courses, and Profile. The main area is titled "Articles" and features a search bar with "Sort by:", "Filter", and "Search" buttons. Below this are three article cards:

- Estate Tax Planning: How does Your strategy look?**  
When it comes to transferring wealth, estate planning and tax planning go hand in hand... [See more](#)  
7 min read | 9 comments | 364 views  
by Peter 17 December
- How to Read Stock Market Ticker Symbols**  
Stock ticker symbols are abbreviated versions of publicly traded company names, typically with one to four letters... [See more](#)  
6 min read | 14 comments | 218 views  
by Connie Hill 4 months ago
- Social Trading: Is there Really Safety in numbers**  
Social trading can be an informative way to invest as...  
by Jane 1 year ago

## ARTICLES TASK

In the first prototype to perform the task "mark as read" and "save for later" the users had to open the article to perform these.

# MID-FIDELITY

The screenshot shows a website interface with a dark blue header. The header features a logo labeled "LOGO" on the left, the title "TWEENTIES" in large white letters, a "Search" bar, and a "Filters" button with a three-line icon. Below the header is a navigation menu with links: "Home", "Articles" (which is highlighted in yellow), "Forum", "Courses", and "Profile". The main content area displays two articles in a grid. Each article card includes a small thumbnail image, the article title, a brief description, the author's name ("Leonard Hofstadter"), and a timestamp. At the bottom right of each card are two buttons: "Save for later" and "Mark as read".

**Estate Tax Planning: How does your strategy look?**  
When it comes to transferring wealth, estate planning and tax planning go hand in hand...  
Leonard Hofstadter | 7 min read | 24 comments | 365 views |  Save for later |  Mark as read

**How to read Stock Market Ticker Symbols**  
Stock ticker symbols are abbreviated versions of publicly traded company names, typically with one to four letters...  
Leonard Hofstadter | 7 min read | 24 comments | 365 views |  Save for later |  Mark as read

After seeing the users reactions we decided to add the options also in the main page.

# MID-FIDELITY

After these minor changes we tested the mid-fidelity prototype, through the Wizard of Oz and didn't record any negative reaction in our users.

The image shows a mid-fidelity prototype of a news website. The header features a dark blue bar with the word "LOGO" on the left, a large white "TWEENTIES" title in the center, a search bar, and a "Filters" button. The main navigation menu on the left includes "Home", "Articles" (which is highlighted in yellow), "Forum", "Courses", and "Profile". The main content area displays two articles. The top article is titled "Estate Tax Planning: How does your strategy look?" by Leonard Hofstadter, with a summary: "When it comes to transferring wealth, estate planning and tax planning go hand in hand...". It includes stats: 7 min read, 24 comments, 365 views, and buttons for "Save for later" and "Mark as read". The bottom article is titled "How to read Stock Market Ticker Symbols" by Leonard Hofstadter, with a summary: "Stock ticker symbols are abbreviated versions of publicly traded company names, typically with one to four letters...". It includes stats: 7 min read, 24 comments, 365 views, and buttons for "Save for later" and "Mark as read". A vertical scrollbar is visible on the right side of the content area.

LOGO

TWEENTIES

Search | Filters

Articles

Estate Tax Planning: How does your strategy look?

When it comes to transferring wealth, estate planning and tax planning go hand in hand...

Leonard Hofstadter 7 min read 24 comments 365 views

Save for later Mark as read

How to read Stock Market Ticker Symbols

Stock ticker symbols are abbreviated versions of publicly traded company names, typically with one to four letters...

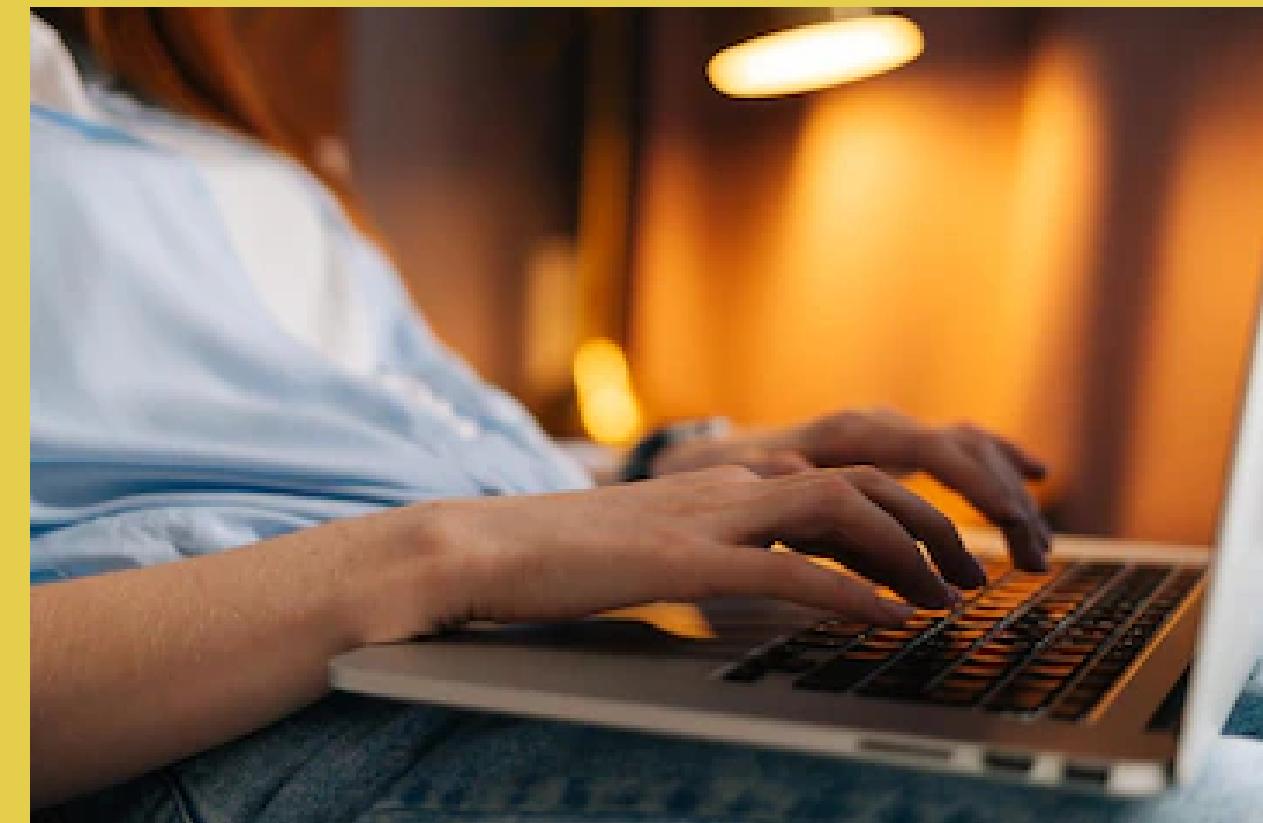
Leonard Hofstadter 7 min read 24 comments 365 views

Save for later Mark as read

# FÓRUM TASK

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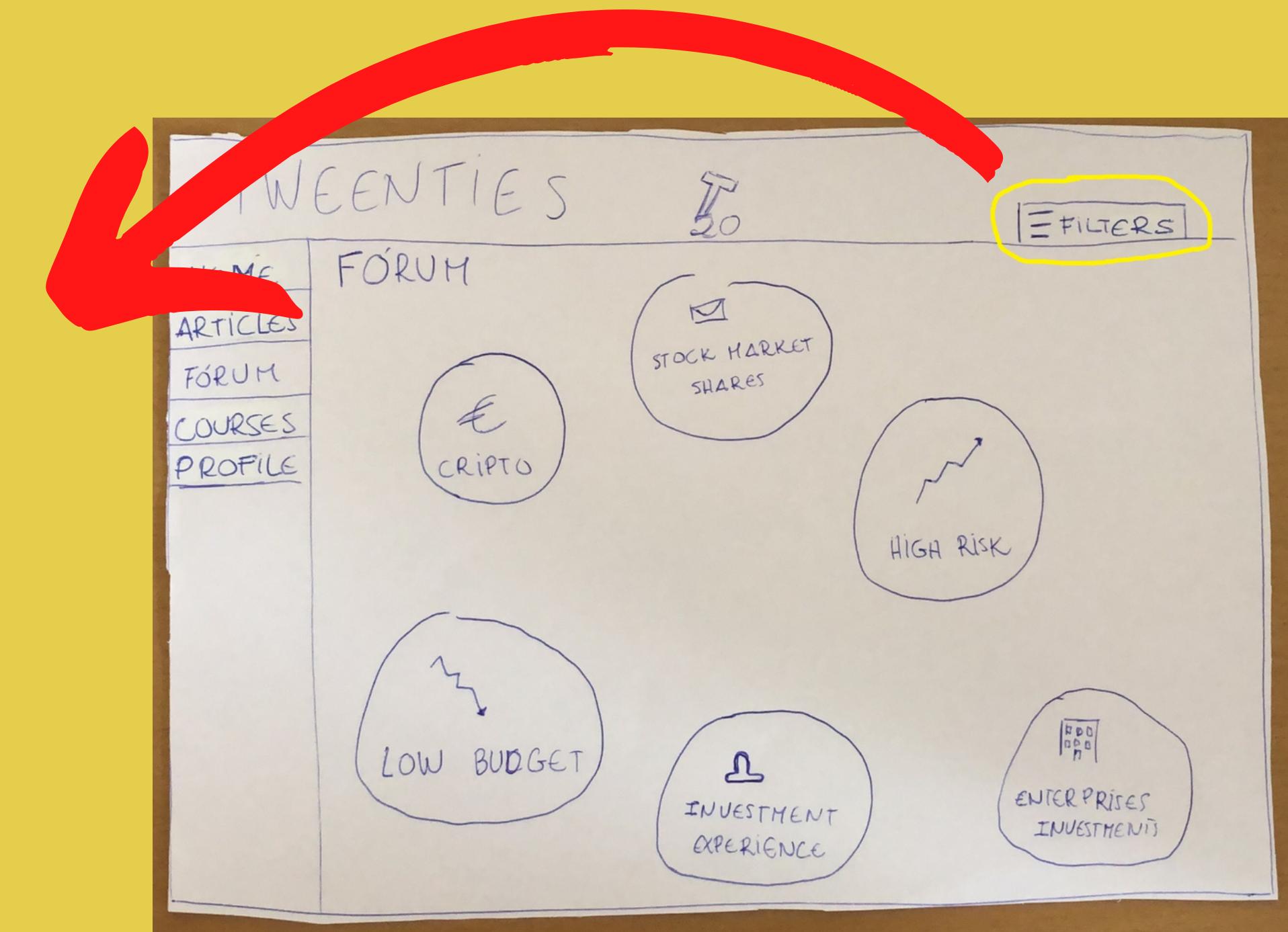
**GO TO A FORUM ABOUT INVESTMENT EXPERIENCES WITH  
LOW-RISK AND ADD A COMMENT!**

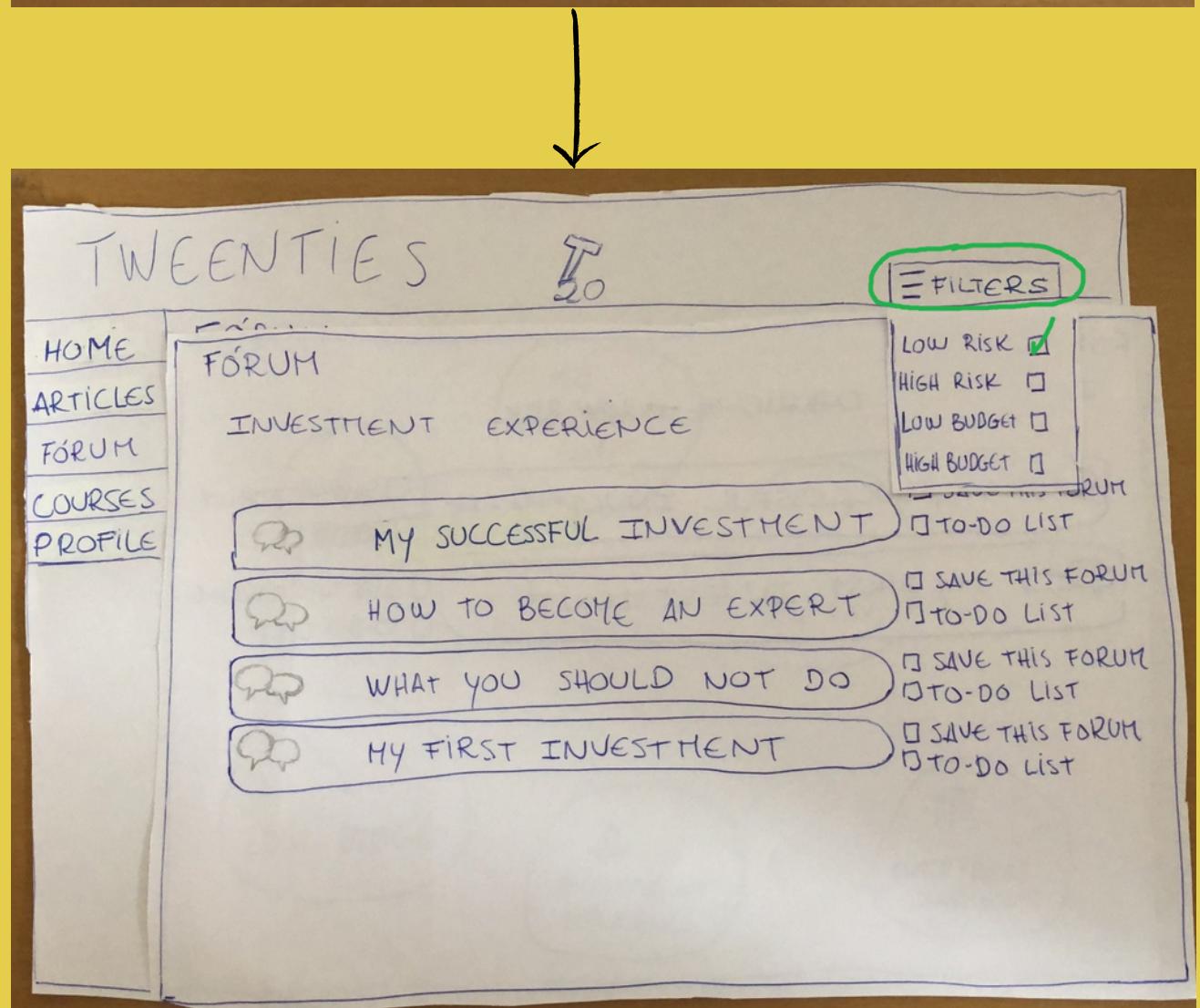
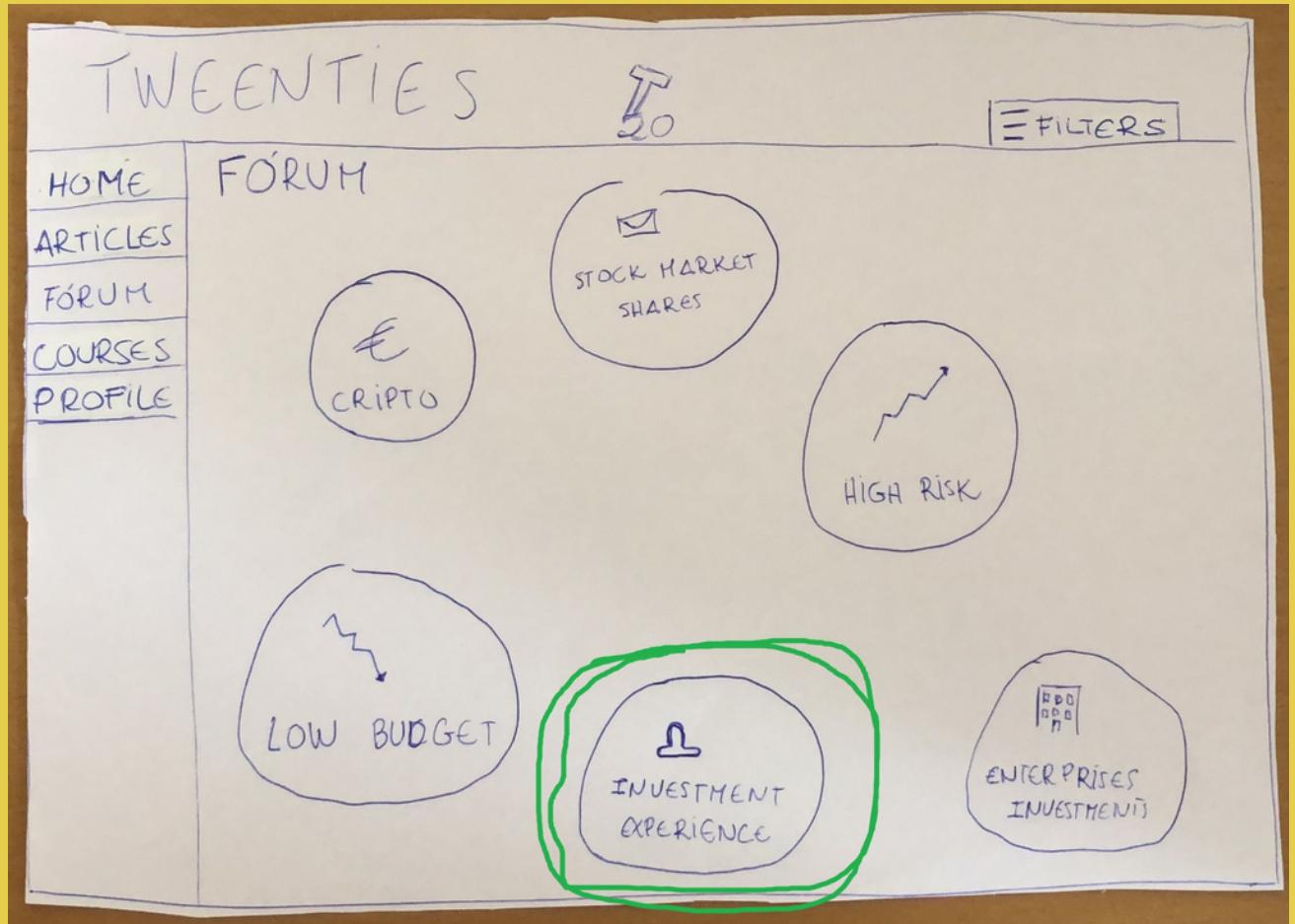


# FORUM

## LOW-FIDELITY

In the low-fidelity prototype the filters button was not available to use in the forum main page.





# FORUM

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## LOW-FIDELITY

We expected the users to first choose the main topic: Investment Experiences (image 1) and only after it click on the filter button and filter for low-risk (image 2). In the image 3 already appeared the Investment Experiences filtered by low-risk.

A low-fidelity wireframe of the Tweenties app's forum screen. The header 'TWEENTIES' and date '20' are at the top. The sidebar includes 'HOME', 'ARTICLES', 'FÓRUM', 'COURSES', and 'PROFILE'. The main content area is titled 'FÓRUM' and shows the message 'INVESTMENT EXPERIENCE → LOW RISK'. Below this, there are two speech bubble-like cards: 'MY SUCCESSFUL INVESTMENT' and 'MY FIRST INVESTMENT'. Each card has options to 'SAVE THIS FORUM' or 'TO-DO LIST'.

# FORUM

## MID-FIDELITY

In the mid-fidelity we decided to put the filter button already available in the main page to correct this problem.

A mid-fidelity wireframe of a digital interface. At the top, a dark blue header bar features the word "TWEENTIES" in large white letters. Below the header is a dark blue sidebar containing a vertical list of navigation items: "Home", "Articles", "Fórum" (written in yellow), "Courses", and "Profile". To the right of the sidebar is a light gray main content area. In the center of the main area, the word "Fórum" is displayed in large white letters. Surrounding this central text are four circular icons with text labels: "Stock Market Shares" (with a bar chart icon), "Investment Experience" (with a person icon), "Low Budget" (with a downward arrow icon), and "Crypto" (with a Bitcoin symbol icon). On the far right, there is a vertical sidebar titled "Filters" with three sections: "Topic" (checkboxes for Low Budget, Low Risk, Real estate, Stock), "Time to read" (checkboxes for < 5 min, 5 to 10 min, > 10 min), and "Release Date" (checkboxes for Last Week, Last Month, Last Year, All time). A large red curved arrow points from the "Filters" section in the sidebar to the "Filters" section in the main content area, indicating a design decision to move the filter controls from the sidebar to the main page.

# FORUM

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## MID-FIDELITY

So the users can already filter the main topics in the forums main page. Note that some of the icons disappear because they don't have low-risk topics.

The image shows a wireframe of a web application interface for a forum. At the top, there is a dark blue header bar with the word "TWEENTIES" in large white letters. To the left of the title is a placeholder "LOGO". On the right side of the header is a "Filters" section with three sections: "Topic", "Time to read", and "Release Date", each with several filter options. Below the header is a light gray main area. On the left, there is a vertical navigation menu with the following items: "Home", "Articles", "Fórum" (which is highlighted in yellow), "Courses", and "Profile". In the center of the main area, there is a heading "Fórum". To the right of the heading are three circular icons: one for "Stock Market Shares" (with a bar chart icon), one for "Low Budget" (with a downward arrow icon), and one for "Enterprises Investment" (with a building icon). A large red curved arrow is drawn over the top right corner of the header area, pointing towards the filters section.

- Topic**
  - Low Budget
  - Low Risk
  - Real estate
  - Stock
- Time to read**
  - < 5 min
  - 5 to 10 min
  - > 10 min
- Release Date**
  - Last Week
  - Last Month
  - Last Year
  - All time

# FORUM

## MID-FIDELITY

We obviously maintained the option to filter only after choose the main topic. With this, users have two different ways of filtering.

The screenshot shows the Tweenties platform's main interface. At the top, there is a logo and the word "TWEENTIES". On the left, a sidebar menu includes "Home", "Articles", "Fórum" (highlighted in yellow), "Courses", and "Profile". On the right, there is a "Filters" section with three main categories: "Topic", "Time to read", and "Release Date". Under "Topic", there are checkboxes for "Low Budget", "Low Risk", "Real estate", and "Stock", with "Low Risk" being checked. Under "Time to read", there are checkboxes for "< 5 min", "5 to 10 min", and "> 10 min". Under "Release Date", there are checkboxes for "Last Week", "Last Month", "Last Year", and "All time". Below the filters, there is a section titled "Investment Experience" with three items: "My successful investment", "How to become an expert", and "My first investment".



The screenshot shows the Tweenties platform's main interface after applying a filter. The "Filters" section now shows that only the "Low Risk" checkbox under "Topic" is selected. The "Investment Experience" section remains the same, displaying "My successful investment", "How to become an expert", and "My first investment". The rest of the interface, including the sidebar menu and other filter options, remains unchanged.

# FORUM

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## MID-FIDELITY

It is important to say that during the mid-fidelity prototype testing using the Wizard of Oz technique there were not found any errors in this task.

The image shows a mid-fidelity prototype of a forum interface. At the top, there is a dark blue header with the word "TWEENTIES" in white, bold, sans-serif font. To the left of the title is a placeholder "LOGO". On the right side of the header are three horizontal bars representing a menu icon, followed by the word "Filters". Below the header, on the left, is a vertical navigation menu with the following items: "Home", "Articles", "Fórum" (highlighted in yellow), "Courses", and "Profile". The main content area has a light gray background. It features a section titled "Fórum" in large, white, sans-serif font. Below this, there are three user posts displayed in cards:

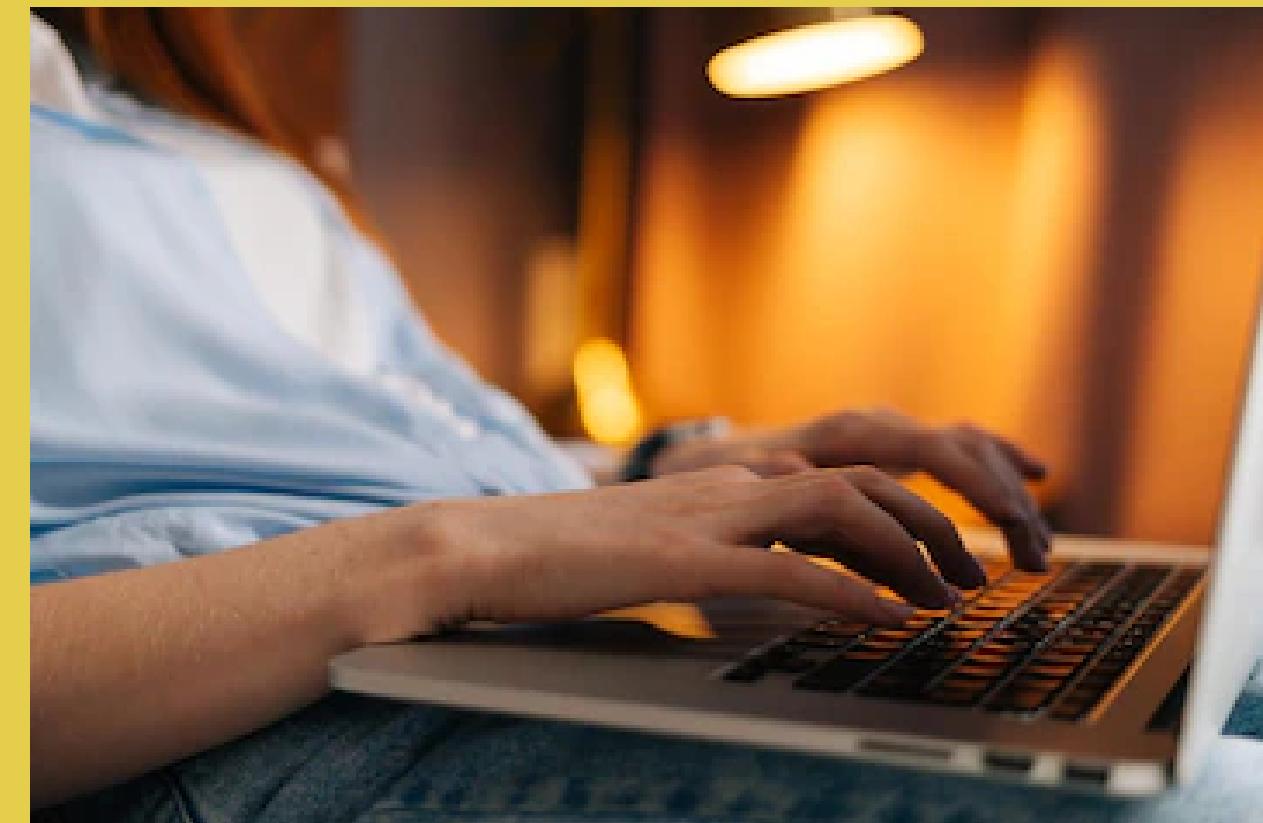
- Fernando Pessoa** (posted 21/11/2022)  
My successful investment  
Eight month I have done a really well succeeded investment. I bought some stock market shares of EDP since they were with a low value due to the war and now I sold them making profit.
- Marta Fernandes** (posted 22/11/2022)  
That was without any doubt a fantastic move. It was a shame that I did not remember to do it...
- Me** (posted Just now)  
Thanks for your sharing!

On the right side of the main content area, there is a sidebar with two buttons: "Save this forum" (unchecked) and "To-Do list" (checked). At the bottom of the sidebar, there is a "Add a comment:" input field with the message "Comment added! ✓".

# **COURSES TASK**

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REACH OUT TO ANY COURSE TO START LEARNING



# LOW-FIDELITY

Major problems:

- Filter not visible enough
- Price not visible before clicking in the course
- Add a comment is not practical

← → ⌂

## COURSES

Home	Most Viewed	Search
Articles	Title: Where to Start Author: Jeremy Description: ~~~~~	Price: Free
Forum	Title: The Right Mind Set Author: Tom Description: ~~~~~	comment: 30
Courses	Title: Advanced Investments Author: Sheldon Description: ~~~~~	likes: 103
Profile		

1 0 1 V

← → ⌂

## COURSES > The Right Mind Set

Home	The Right Mind Set	Price: Free
Articles		
Forum		
Courses	Description: ~~~~~	
Profile		

# LOW-FIDELITY

## Main area (before)

Courses

Home	Most Viewed <input checked="" type="checkbox"/>	Search <input type="button" value="P"/>
Articles	Title: Where to Start Author: Jeremy Description: ~~~~~	Price: 5€ Likes: 46 Comments: 10
Forum	Title: The Right Mind Set Author: Tom Description: ~~~~~	Price: Free Likes: 103 Comments: 30
Courses	Title: Advanced Investments Author: Sheldon Description: ~~~~~	Price: 3€ Likes: 12 Comments: 4
Profile	V	

## Main area (after)

Courses

Home	filter: Most Viewed <input checked="" type="checkbox"/>	Search <input type="button" value="P"/>
Articles	Title: Where to Start Author: Jeremy Description: ~~~~~	Price: 5€ Likes: 46 Comments: 10
Forum	Title: The Right Mind Set Author: Tom Description: ~~~~~	Price: Free Likes: 103 Comments: 30
Courses	Title: Advanced Investments Author: Sheldon Description: ~~~~~	Price: 3€ Likes: 12 Comments: 4
Profile	V	

## Course Details

Courses > The Right Mind Set

Home	The Right Mind Set	Price: Free
Articles	Likes: 103	Comments: 30
Forum	Description: ~~~~~	
Courses	~~~~~	
Profile	~~~~~	

## Comment Section

Courses > The Right Mind Set > comments

Home	Comments	+ ADD Comment
Articles	I recommend this course to everyone	
Forum	Hervigne	
Courses	Very useful ::	
Profile	Morten	

# MID-FIDELITY

## Main area

The main area of the Tweenties website displays a navigation bar with links to Home, Articles, Forum, Courses (highlighted in yellow), and Profile. The main content area shows two course cards: "How to start investing for beginners" by Leonard Hofstadter and "Learn about Crypto" by Sheldon Cooper.

**How to start investing for beginners**  
This course provides a great way for people that don't have any experience in this area to start investing.  
Leonard Hofstadter | 3 weeks | FREE  
31 comments | 70 views | Save for later

**Learn about Crypto**  
Nowadays we are used to ear about crypto currency. But what is that and how it works? Discover all that with this course.  
Sheldon Cooper | 3 weeks | 14.99  
24 comments | 365 views | Save for later

## Comment Section

The comment section for the "How to start investing for beginners" course shows three comments from users Natasha, Martim, and Luigi.

**Comment Section:**

**Natasha**  
It is really helpful :)

**Martim**  
I learned a lot!

**Luigi**  
This course is very interesting!

[+ Add a Comment](#)

## Course Details

Detailed view of the "How to start investing for beginners" course page. It includes the course title, description, instructor, and viewing statistics. Below the course card, there are three video thumbnail sections: "Macro economy", "Basis of investments", and "Where to start".

**How to start investing for beginners**  
This course provides a great way for people that don't have any experience in this area to start investing.  
Leonard Hofstadter | 3 weeks | FREE  
31 comments | 70 views | Save for later

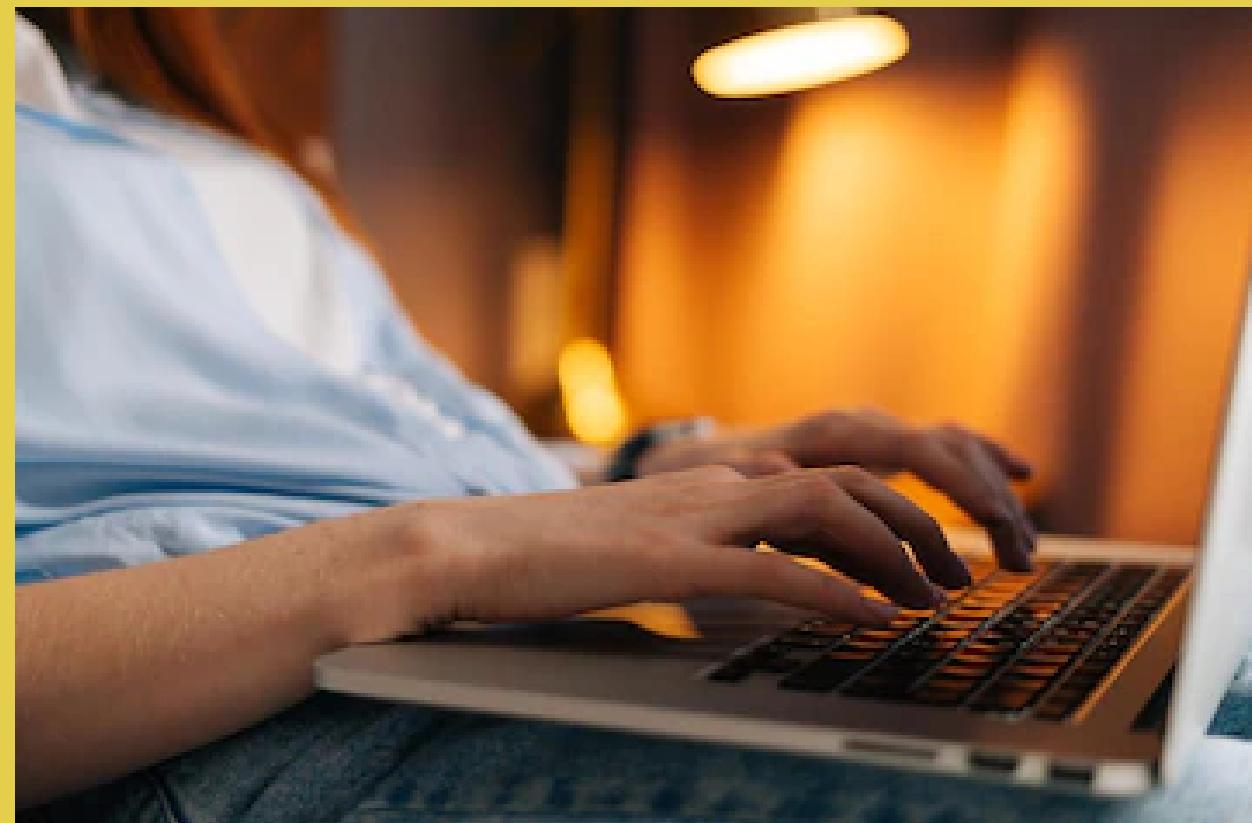
Here you can find some videos on YouTube about the basis of economy simplified

**Macro economy**  
**Basis of investments**  
**Where to start**

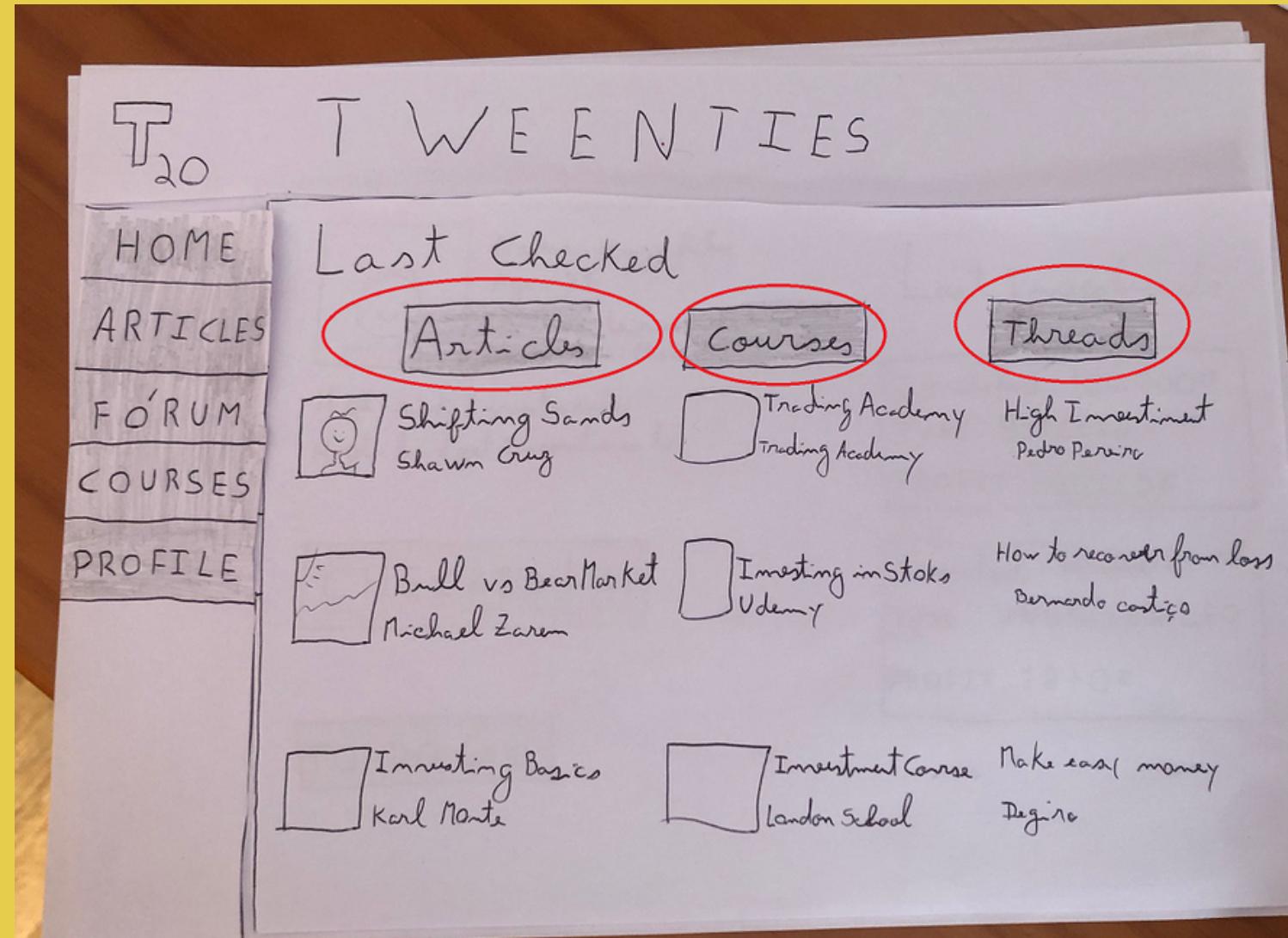
# PROFILE TASK

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FIND OUT HOW MANY ARTICLES HAVE YOU READ



# PROFILE LOW-FIDELITY



# MID-FIDELITY

The mid-fidelity design shows a dark blue header with the 'TWEENTIES' logo and a light gray sidebar on the right. The sidebar contains a 'LOGO' section with a 'T 20' icon, followed by a vertical list of menu items: Home, Articles, Fórum, Courses, Profile, Last Checked, All Articles (circled in green), All Courses (circled in green), and All Threads (circled in green). The main content area displays a grid of cards with user profiles and course information, each with a small icon and a 'DEGIRO' logo.

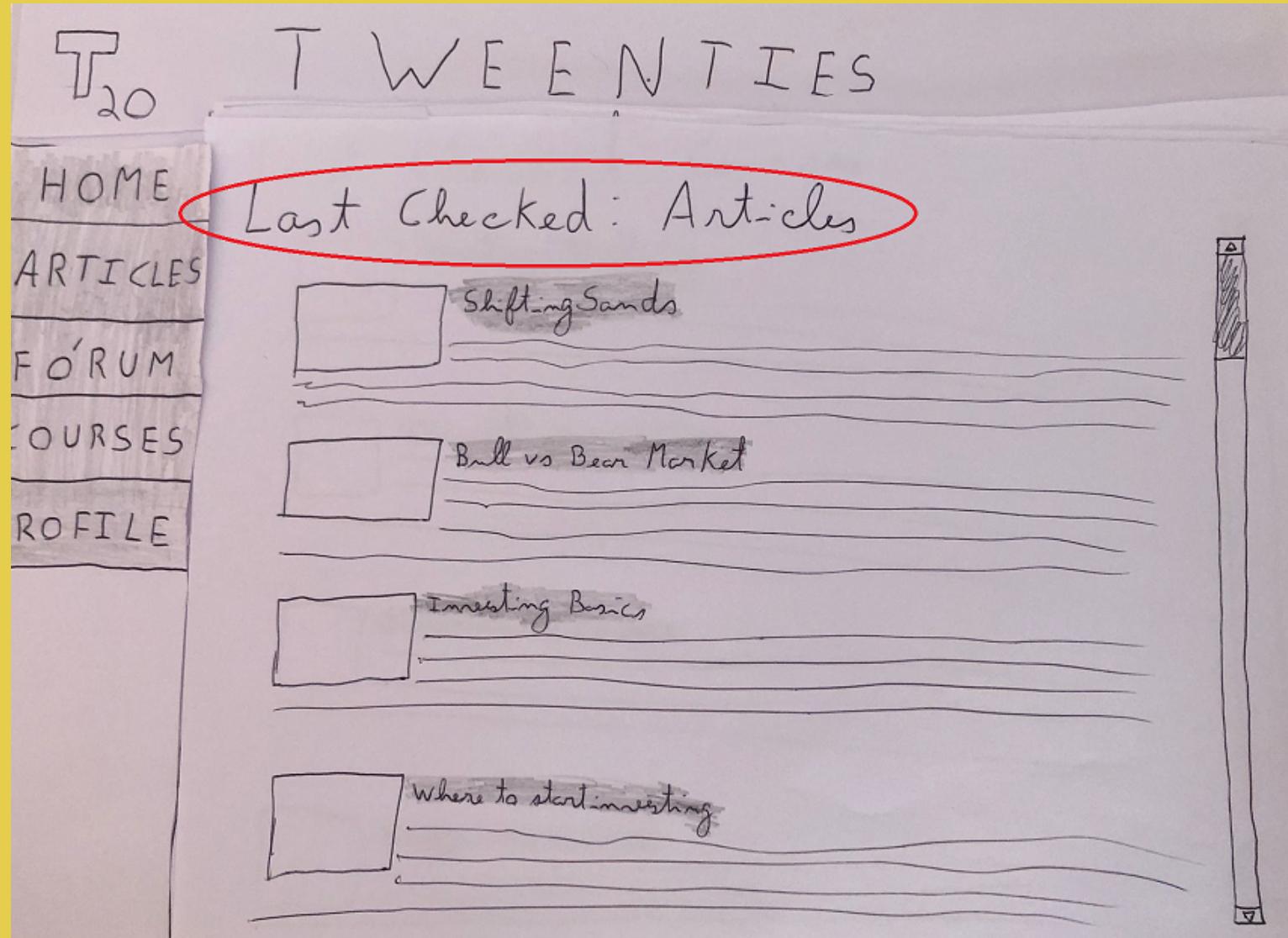
Category	User	Content	Icon
All Articles	Shifting Sands	Shawn Cruz	Document
All Courses	Strategic Investment	London School	University
All Threads	My First Investment	Fernando Pessoa	Portrait
All Articles	Bull vs Bear Market	Ivana Pino	Document
All Courses	Investir no mundo	Degiro	Circle
All Threads	How i started Investing	Bernardo Castigo	Person
All Articles	Future of Crypto	Alex Gailey	Document
All Courses	Financial Markets	Yale University	University
All Threads	How to invest in Bitcoin	Hugo Rita	Person

USERS THOUGHT THAT THE  
TASK WAS OVER ONE STEP  
BEFORE THEY FINISHED IT

LESS AMBIGUOUS NAME:  
ARTICLES BECAME ALL  
ARTICLES

# PROFILE

## LOW-FIDELITY



# MID-FIDELITY

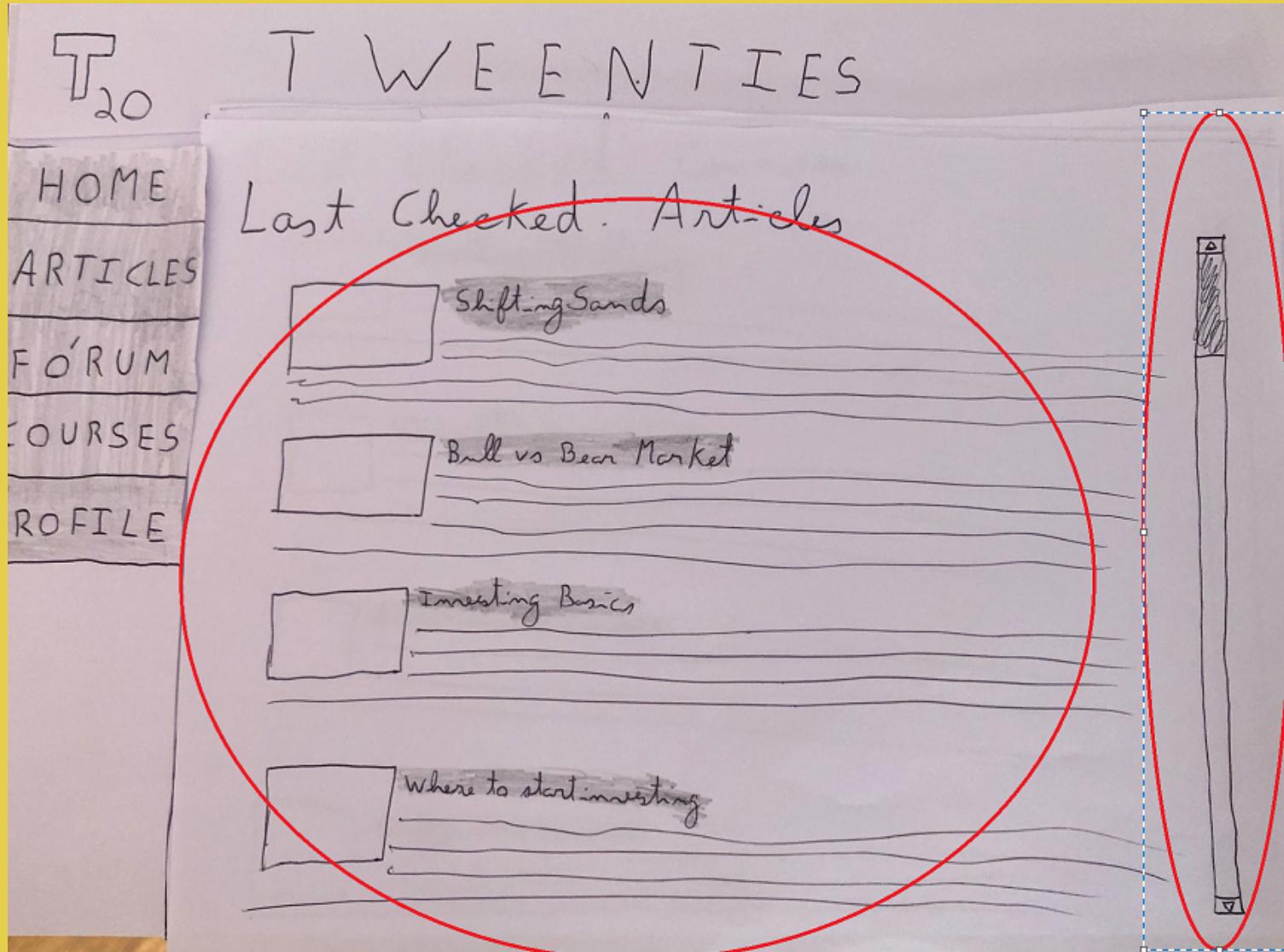
The mid-fidelity design shows a dark blue header with the 'TWEENTIES' logo. On the left is a vertical navigation menu with 'LOGO' at the top, followed by 'Home', 'Articles', 'Fórum', 'Courses', and 'Profile' (in yellow). To the right of the menu, a green oval highlights the text 'Checked: All Articles' in the main content area. Below this are two news cards: 'Shifting Sands: Optimism Trickles Out of Wall Street' and 'Bear vs. bull markets: How they differ'.

USERS THOUGHT THAT MAYBE  
THE TASK WASN'T OVER WHEN  
THEY FINISHED IT

CHANGED THE FINAL  
WINDOW'S NAME: FROM  
LAST CHECKED: ARTICLES TO  
CHECKED: ALL ARTICLES.

# PROFILE

## LOW-FIDELITY



# MID-FIDELITY

The mid-fidelity design features a dark header with the "TWEENTIES" logo. Below it is a navigation menu with "Home", "Articles", "Forum", "Courses", and "Profile" (highlighted in yellow). The main content area displays two articles: "Shifting Sands: Optimism Trickles Out of Wall Street" and "Bear vs. bull markets: How they differ". Both articles include a thumbnail, title, a brief description, and a stats bar. A green circle highlights the "Checked: All Articles" section in the header, which has replaced the original "Last Checked: Articles". A vertical white marker is on the right edge of the screen.

LOGO

# TWEENTIES

Home  
Articles  
Forum  
Courses  
**Profile**

Checked: All Articles

**Shifting Sands: Optimism Trickles Out of Wall Street**  
The market is generally shaking off optimistic expectations from some participants who'd thought that the economy could have a "soft landing" as the Fed eased up on tightening...  
7 min read 24 comments 365 views

**Bear vs. bull markets: How they differ**  
The SEC defines a bear market as a time when stock prices are declining, at least 20% over a two-month period...  
7 min read 24 comments 365 views

USERS THOUGHT THAT MAYBE THE TASK WASN'T OVER WHEN THEY FINISHED IT

CHANGED THE FINAL WINDOW'S NAME: FROM LAST CHECKED: ARTICLES TO CHECKED: ALL ARTICLES.

# PROFILE MID-FIDELITY

LOGO **TWEENTIES**

Last Checked

All Articles All Courses All Threads

Icon	Title	Author	Image
	Shifting Sands	Shawn Cruz	
	BULL vs Bear Market	Ivana Pino	
	Future of Crypto	Alex Gailey	
	Strategic Investment	London School	
	Investir no mundo	Degiro	
	Financial Markets	Yale University	
	My First Investment	Fernando Pessoa	
	How i started Investing	Bernardo Castiço	
	How to invest in Bitcoin	Hugo Rita	

FOR 3/5 USERS IT ISN'T INTUITIVE THAT "ALL ARTICLES"  
IS A BUTTON, INSTEAD IT LOOKS LIKE A TITLE

# EVALUATION PLAN

Evaluation methods:

- Have a objective metric that tests the usability of the prototype. (Number of clicks to perform all tasks)
- Have a subjective metric that evalutates the satisfaction of the users according to the initial problems (Final interview with the user)