ENP 166-Computer Interface

Conceptual Design

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3 Concepts

- **How to do a French braid**
  The French braid or French plait is a popular and classic hairstyle known for its elegant and intricate appearance. It is a three-strand braid, in which you keep adding hair strands as you keep braiding creating a woven pattern.

- **How to get rid of fruit flies in your house**
  Though harmless, having fruit flies in your house can be annoying. Common household products can be used to get rid of or prevent fruit flies from entering your house.

- **How to read music**
  Musical notation is a system of symbols and markings used to represent musical elements such as pitch, rhythm, dynamics, and expression. Reading music involves interpreting written musical notation to perform or understand a piece of music.

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How to do a French braid?

Materials required

1. Hairbrush
2. Hair ties
3. Mirror

Preparation

1. Combing hair
2. Deciding whether to do a one side plait or two sides
3. Keeping the hair ties within your reach

Braiding

1. Dividing hair into 3 equal parts
2. Starting with a regular braid
3. Adding hair from sides to the braid

Materials for maintaining braid

1. Hair pins
2. Hair spray

How to get rid of fruit flies in your house?

Prevention

1. Clean surfaces
2. Screens
3. Proper storage for food
4. Regular cleaning

Traps

1. Vinegar trap
2. Fruit trap
3. Funnel trap
4. Sticky fly paper

Spraying

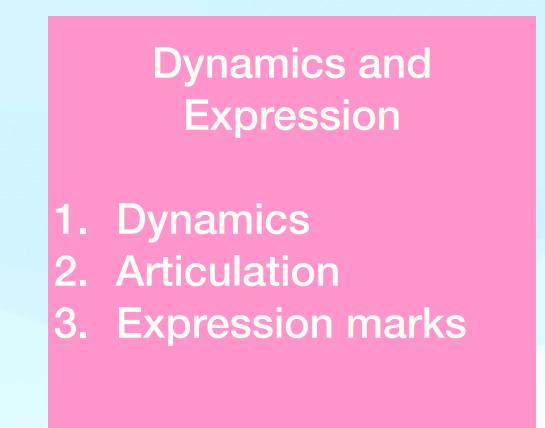1. Rubbing alcohol
2. Aerosol insecticide

How to read music?

Musical Notation Basics

1. Staff
2. Clef
3. Notes
4. Rests
5. Duration

Rhythm and Timing

1. Time signature
2. Tempo markings
3. Counting Beats
4. Syncopation

Dynamics and Expression

1. Dynamics
2. Articulation
3. Expression marks

Sight-Reading

1. Sight-Reading Strategies
2. Practice methods for sight reading

Performance

1. Interpretation of the music
2. Practice methods for learning various music pieces

Concept chosen to work on

- The topic that I will be choosing is how to do a French braid. I have always looked at step-by-step guides on how to tie hair in a particular style. Several people with long hair refer to step by step illustrations/pictures/how to do it videos to style their own hair or someone else's. This seems like an instructable that several users would use and would be easy for users to follow through.

Maya Kumar
High-school student

Age: 15
Location: Sydney, Australia

About Maya

Maya is a high-school student that loves fashion and makeup. She loves trying out new styles, and learning new makeup and hairstyle techniques.

Frustrations

○ Feels that existing tutorials have too many unwanted informations that she has to go through.
○ Missing steps in many tutorials.
○ Feels that many tutorials show steps that are complicated to follow through.

Needs/Goals

○ Wants to style her hair by herself without asking her sister or mother for help.
○ Wants to learn how to braid hair in a way other than the standard 3 braid.
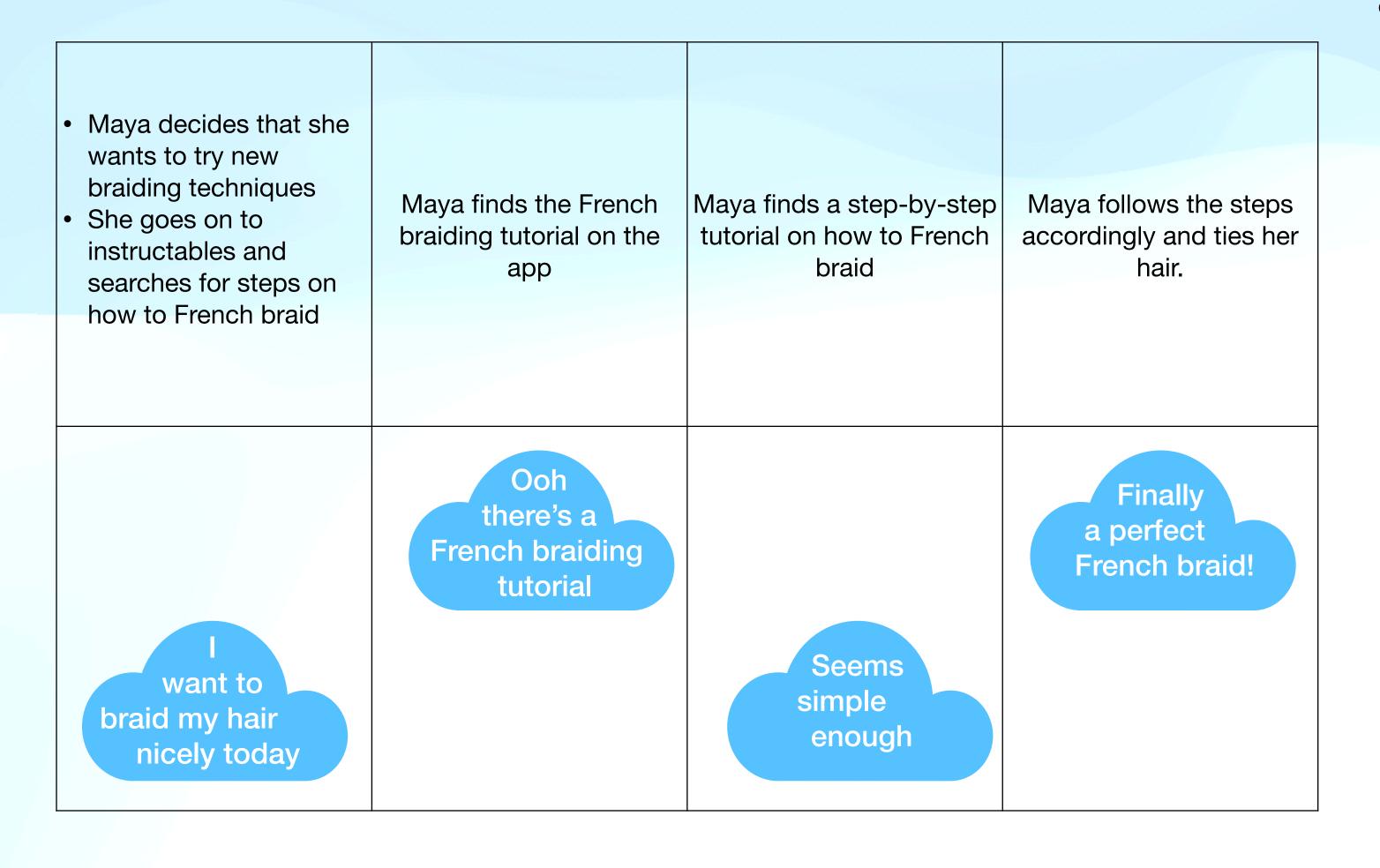○ Wants to keep hair out of her face when doing physical work.

Wants from the application

○ Easy to follow along along step-by-step guide.
○ Should be able to easily find the instructions on the app.

Maya Kumar
High-school student

Age: 15
Location: Sydney, Australia

Scenario

Maya is getting ready for a day out with her friends and is looking to tie her hair instead of leaving it open.

User Expectations

- Easy to follow along along step-by-step guide.
- Should be able to easily find the instructions on the app.
- Does not want to go through lots of random information before the actual instructions

• Maya decides that she wants to try new braiding techniques • She goes on to instructables and searches for steps on how to French braid	Maya finds the French braiding tutorial on the app	Maya finds a step-by-step tutorial on how to French braid	Maya follows the steps accordingly and ties her hair.
I want to braid my hair nicely today	Ooh there's a French braiding tutorial	Seems simple enough	Finally a perfect French braid!

About Zach

Zach is a husband and father, who wants to spend more time with his daughter. He wants to be able to braid his 8 year old daughter's hair, just like how his wife does.

Frustrations

○ Finds braiding hair too complicated.
○ Existing tutorials have too many steps to follow through.

Wants from the application

○ Easy to follow along along step-by-step guide.
○ Should be able to easily find the instructions on the app.

Zach Oswald
Accountant

Age: 38
Location: Massachusetts, USA
Status: Married
Children: 1

Needs/Goals

○ Wants to braid his daughter's hair himself.
○ Wants to help his wife by getting their daughter ready for school.
○ Wants to show his daughter that he too can style her hair and not just mommy.
○ Wants to spend more time with his daughter.
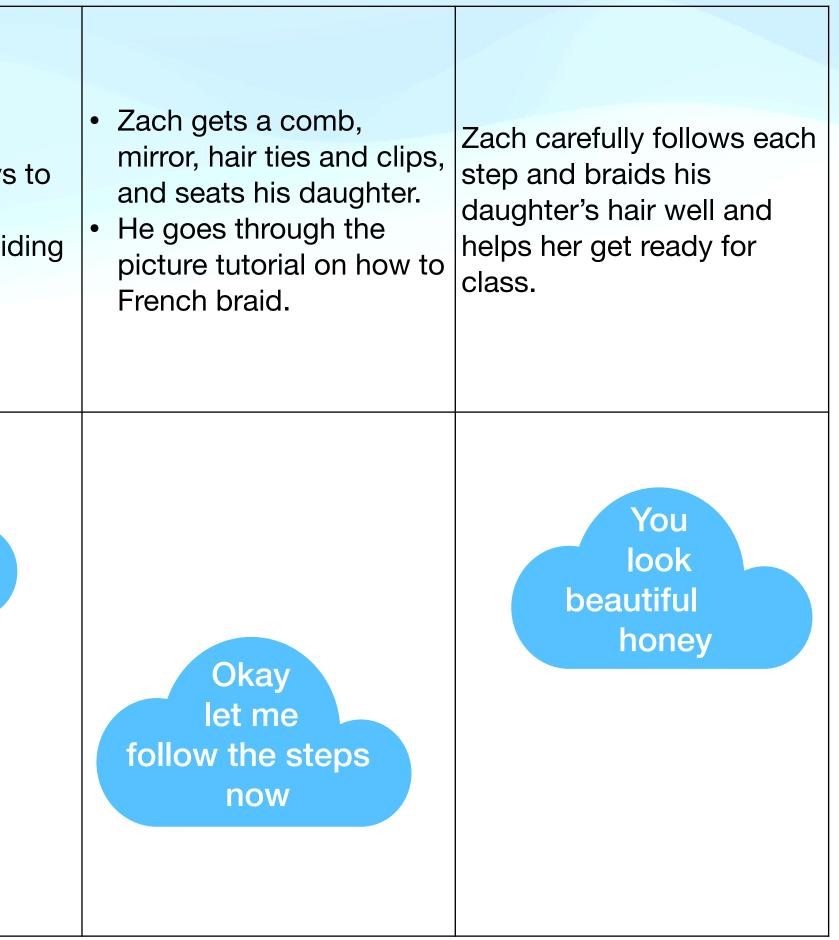
Zach Oswald
Accountant

Age: 38
Location: Massachusetts, USA
Status: Married
Children: 1

Scenario
Zach is helping his daughter get ready for dance class. She asked him to tie her hair into a pretty French braid.

User Expectations

○ Easy to follow along along step-by-step guide.
○ Should be able to easily find the instructions on the app.

• Zach's daughter loves braided hairstyles and wants her dad to style her hair. • Zach decides to learn how to French braid his daughter's hair so he can help her get ready for the day.	Zach searches on the instructables app ways to braid hair, and comes across the French braiding tutorial.	• Zach gets a comb, mirror, hair ties and clips, and seats his daughter. • He goes through the picture tutorial on how to French braid.	Zach carefully follows each step and braids his daughter's hair well and helps her get ready for class.
Let me tie your hair today for you	This one looks good	Okay let me follow the steps now	You look beautiful honey

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