**Problem for parents:**

* New parents are often overwhelmed
* Lack of formal training for new parents
* Social stigma attached to asking for help
* Depression rates high among new fathers and mothers
* First few months of child development are critical for child’s health

**Outcomes for parents:**

* Parent has basic child-rearing questions answered
* Parent is presented with a list of resources when bot is unable to answer their question
* Parent is reassured in their ability to raise a child
* Parent feels like they have some place to turn 24 hours a day

**Objectives:**

* To create a chatbot that answers questions from new parents about their child and reassures parents of their ability to raise a child

**Some highlighted functions:**

* Remembers statistics about the child (height and weight, etc)
* Can calculate growth curve to tell parent if their child is growing
* Answers questions about diet (breastfeeding vs formula, is it okay to have solid food yet, etc?)
* What to do when child is crying
* What to do when child won’t sleep
* How to deal with older child concerns (misbehavior, communicating with child about sensitive topics, etc)
* Dosage information for common child medications
* Database of resources (poison control, doctor call centers, mayo clinic, etc.) with relevant resources returned upon parent query

**Objectives:**

* Where will our bot be hosted?
* How does our bot access the social media account?
* How are users uniquely identified? How can we make this secure?
* How does the bot store/access user information? Securely?
* Where does the bot get parenting information and where is it organized?
* What social media platform should we use?
* What programming language can communicate with the platform?
* What questions should we ask of a focus group of potential users?
* What kind of users will this bot interact with?

**Timeline (items completed by the end of class on…)**

-Visual Mock Up’s w/ two way chat initiated

-Code?

-Project to plan incorporate user input

-Choose platform

-Describe ideal users?

|  |  |  |
| --- | --- | --- |
| Date | Roles | Challenges |
| 7/10 | Rough draft of video and project description (everyone)   * Mark - Make prelimary video * Eleanor--platforms and other research * Jason-Questions a bot needs to answers * Mike-COMPLETELY CODES THE BOT | A lot of time was spent figuring out the process |
| 7/17 | Project Analysis and Design, Code |  |
| 7/24 | Version 2.0 of Video and Project Description |  |
| 7/31 | Version 2.0 of Project Analysis/Design and Code Demo  Jason and Mike - Video  Mark - Code  Eleanor - Presentation |  |
| 8/7 | Version 3.0 of everything |  |

Resources:

<https://www.entrepreneur.com/article/289788>

<https://www.botengine.ai/help/integrations/what-is-integration>

<https://www.wordstream.com/blog/ws/2018/04/27/messaging-apps>

<https://www.marutitech.com/complete-guide-chatbots/>

<https://chatbotsmagazine.com/how-to-develop-a-chatbot-from-scratch-62bed1adab8c>

Bandwidth

* Facebook Messenger allows for a maximum message size of 918 characters. Each character is a ASCII character of 1 byte. We will round up and assume that each message is 1 KB (kilobyte = 1024 bytes) at maximum.
* If the network card on the server is a 1 gbps (Gigabits per second) ethernet card, then it can support 125,000,000 messages per second
  + 1 Gigabit = 1,000,000,000 bits = 125,000,000 bytes
  + For our initial 34,000 users, it is unlikely that

Hosting location:

Hosting.com

San Francisco Data Center

Directly located in the SOMA neighborhood of San Francisco, California our data center is equipped with advanced features and security to provide our customers the optimal data center environment. Multiple cabinet and cage configurations are available for colocation needs. This facility has been audited under SOC 2 and SOC 3 requirements to ensure the most rigorous internal controls are in place. Our emphasis on operational best practices means server equipment and data is always safe and always available.

IP Address of our San Francisco hosting: 206.223.118.115

Hostname: equinix.br01.dfw1.tfbnw.net

IP Address: 206.223.118.115

Country: United States

Country Code: US (USA)

Region: California

City: Redwood City

Local time: 31 Jul 17:01 (PDT-0700)

Postal Code: 94065

Latitude: 37.5331

Longitude: -122.2471

BETWEEN WEBHOOK HOSTING AND FB SERVERS:

TraceRoute from Network-Tools.com to 31.13.93.35 [facebook.com]  
Hop (ms) (ms) (ms) IP Address Host name  
1 0 0 0 206.223.118.115 equinix.br01.dfw1.tfbnw.net   
2 0 0 0 157.240.41.99 po102.psw01.dfw5.tfbnw.net   
3 0 0 0 173.252.67.243 -   
4 0 0 0 31.13.93.35 edge-star-mini-shv-02-dfw5.facebook.com

Input: facebook.com

canonical name: facebook.com

Registered Domain: facebook.com

Ping 31.13.93.35

[facebook.com]

Round trip time to 31.13.93.35: 0 ms

Round trip time to 31.13.93.35: 0 ms

Round trip time to 31.13.93.35: 0 ms

Round trip time to 31.13.93.35: 0 ms

Round trip time to 31.13.93.35: 0 ms

Round trip time to 31.13.93.35: 0 ms

Round trip time to 31.13.93.35: 0 ms

Round trip time to 31.13.93.35: 0 ms

Round trip time to 31.13.93.35: 0 ms

Round trip time to 31.13.93.35: 0 ms

Average time over 10 pings: 0.00 ms

# Code flow

Thanks for contacting VillageBot, you’re doing a great job!

Parse string for these words: (temperature, fever, hot)

You’re doing a great job!

If fever = true,

Ask what temperature is

If (temp> 96) & (temp<99),

Your baby is fine!

Else

Would you like to be connected to a doctor?

Parse string for (crying, yelling, upset, screaming, fussy, colicky)

If crying true

How long has baby been crying? (ignore input)

I’m sorry, that’s really hard. I’m going to try to help you.

Does your baby need a diaper change?

If no, then, “Why don’t you try that and let me know if the baby is still crying?”

yes, then

Have you tried burping your baby?

If no, then, “Why don’t you try that and let me know if the baby is still crying?”

Have you tried swaddling the baby?

Have you tried soothing the baby? (white noise)

Have you tried gently rocking the baby?

Have you tried feeding the baby?

Else

Would you like to be connected to a doctor?

Handle swearing with a funny message

Put code in a video to insert in Google Slide