

Chatbot Integration into a Web App using Flask

Development Part 2

Introduction

Welcome to Phase 4 of our project, "Chatbot Integration into a Web App using Flask." In this phase, we continue to build upon the foundation established in the previous phases, bringing us one step closer to creating a fully functional and interactive web-based chatbot.

Project Overview

The primary objective of this project is to develop a chatbot capable of engaging in natural conversations with users through a web-based interface. As part of Phase 4, we will integrate our chatbot into a Flask web application, enabling users to interact with it in real-time. This integration not only enhances the user experience but also opens the door to making our chatbot accessible to a broader audience.

Document Purpose

This document serves as a comprehensive guide for Phase 4 of our project. It outlines the steps required to integrate your chatbot into a Flask web application, presents the code needed for the integration, and offers explanations and best practices to ensure the successful implementation of this phase.

What to Expect

In this document, you will find detailed instructions, code examples, and explanations on how to:

Set up Flask and create a structured project directory.

Integrate your existing chatbot logic with Flask to handle user messages and generate responses.

Create HTML templates for the chat interface.

Implement real-time interaction using AJAX for seamless communication with the chatbot.

Style your web application to provide an engaging and user-friendly interface.

Test the web-based chatbot to ensure its functionality.

Deploy the application to make it accessible over the internet.

Document your code and provide user-friendly instructions for running the application.

This document also addresses the integration of a dataset for training your chatbot and includes a section on how to leverage your dataset effectively.

As you progress through this phase, keep in mind that the ultimate goal is to showcase a fully functional web-based chatbot with seamless integration and an enjoyable user experience.

Let's dive into the details of each component of this phase, starting with setting up Flask and integrating your chatbot logic.

Prerequisites: Journey So Far

Before we set off on the next phase of our project, let's take a moment to appreciate the milestones we've already crossed. Here's how our journey has shaped up:

1. Completion of Previous Phases

In the earlier phases, we've put in the effort to develop our chatbot. We've designed it, programmed it to respond to user queries, and ensured it's in good working order. Our chatbot is now ready to take the next step.

2. Acquiring a Valuable Dataset

We've collected a dataset that's like a treasure chest for our chatbot. It's a collection of questions and answers carefully curated for our chatbot's domain. This dataset will serve as the fuel to make our chatbot smarter and more knowledgeable.

DataSet for this bot:

```
hi, how are you doing?      i'm fine. how about yourself?
i'm fine. how about yourself?  i'm pretty good. thanks for asking.
i'm pretty good. thanks for asking. no problem. so how have you been?
no problem. so how have you been?    i've been great. what about you?
i've been great. what about you?  i've been good. i'm in school right now.
i've been good. i'm in school right now.  what school do you go to?
what school do you go to?  i go to pcc.
```

i go to pcc. do you like it there?

do you like it there? it's okay. it's a really big campus.

it's okay. it's a really big campus. good luck with school.

good luck with school. thank you very much.

how's it going? i'm doing well. how about you?

i'm doing well. how about you? never better, thanks.

never better, thanks.so how have you been lately?

so how have you been lately? i've actually been pretty good. you?

i've actually been pretty good. you? i'm actually in school right now.

i'm actually in school right now. which school do you attend?

which school do you attend? i'm attending pcc right now.

i'm attending pcc right now. are you enjoying it there?

are you enjoying it there? it's not bad. there are a lot of people there.

it's not bad. there are a lot of people there. good luck with that.

good luck with that. thanks.

how are you doing today? i'm doing great. what about you?

i'm doing great. what about you? i'm absolutely lovely, thank you.

i'm absolutely lovely, thank you. everything's been good with you?

everything's been good with you? i haven't been better. how about yourself?

i haven't been better. how about yourself? i started school recently.

i started school recently. where are you going to school?

where are you going to school? i'm going to pcc.

i'm going to pcc. how do you like it so far?

how do you like it so far? i like it so far. my classes are pretty good right now.

i like it so far. my classes are pretty good right now. i wish you luck.

it's an ugly day today. i know. i think it may rain.

i know. i think it may rain. it's the middle of summer, it shouldn't rain today.

it's the middle of summer, it shouldn't rain today. that would be weird.

that would be weird.yeah, especially since it's ninety degrees outside.

yeah, especially since it's ninety degrees outside. i know, it would be horrible if it rained and it was hot outside.

i know, it would be horrible if it rained and it was hot outside. yes, it would be.

yes, it would be. i really wish it wasn't so hot every day.

i really wish it wasn't so hot every day. me too. i can't wait until winter.

me too. i can't wait until winter. i like winter too, but sometimes it gets too cold.

i like winter too, but sometimes it gets too cold. i'd rather be cold than hot.

i'd rather be cold than hot. me too.

it doesn't look very nice outside today. you're right. i think it's going to rain later.

you're right. i think it's going to rain later. in the middle of the summer, it shouldn't be raining.

in the middle of the summer, it shouldn't be raining. that wouldn't seem right.

that wouldn't seem right. considering that it's over ninety degrees outside, that would be weird.

considering that it's over ninety degrees outside, that would be weird. exactly, it wouldn't be nice if it started raining. it's too hot.

exactly, it wouldn't be nice if it started raining. it's too hot. i know, you're absolutely right.

i know, you're absolutely right. i wish it would cool off one day.

i wish it would cool off one day. that's how i feel, i want winter to come soon.

that's how i feel, i want winter to come soon. i enjoy the winter, but it gets really cold sometimes.

i enjoy the winter, but it gets really cold sometimes. i know what you mean, but i'd rather be cold than hot.

i know what you mean, but i'd rather be cold than hot. that's exactly how i feel.

i wish it was a nicer day today. that is true. i hope it doesn't rain.

that is true. i hope it doesn't rain. it wouldn't rain in the middle of the summer.

it wouldn't rain in the middle of the summer. it wouldn't seem right if it started raining right now.

it wouldn't seem right if it started raining right now. it would be weird if it started raining in ninety degree weather.

it would be weird if it started raining in ninety degree weather. any rain right now would be pointless.

any rain right now would be pointless. that's right, it really would be.

that's right, it really would be. i want it to cool down some.

i want it to cool down some. i know what you mean, i can't wait until it's winter.

i know what you mean, i can't wait until it's winter. winter is great. i wish it didn't get so cold sometimes though.

winter is great. i wish it didn't get so cold sometimes though. i would rather deal with the winter than the summer.

it's such a nice day. yes, it is.

yes, it is. it looks like it may rain soon.

it looks like it may rain soon. yes, and i hope that it does.

yes, and i hope that it does. why is that?

why is that? i really love how rain clears the air.

i really love how rain clears the air. me too. it always smells so fresh after it rains.

me too. it always smells so fresh after it rains. yes, but i love the night air after it rains.

yes, but i love the night air after it rains. really? why is it?

really? why is it? because you can see the stars perfectly.

because you can see the stars perfectly. i really hope it rains today.

i really hope it rains today. yeah, me too.

isn't it a nice day? it really is.

it really is. it seems that it may rain today.

it seems that it may rain today. hopefully it will.

hopefully it will. how come?

how come? i like how clear the sky gets after it rains.

i like how clear the sky gets after it rains. i feel the same way. it smells so good after it rains.

i feel the same way. it smells so good after it rains. i especially love the night air when it rains.

i especially love the night air when it rains. really? why?

really? why? the stars look so much closer after it rains.

the stars look so much closer after it rains. i really want it to rain today.

i really want it to rain today. yeah, so do i.

don't you think it's nice out? yes, i think so too.

yes, i think so too. i think that it's going to rain.

i think that it's going to rain. i hope that it does rain.

i hope that it does rain. you like the rain?

you like the rain? the sky looks so clean after it rains. i love it.

the sky looks so clean after it rains. i love it. i understand. rain does make it smell cleaner.

i understand. rain does make it smell cleaner. i love most how it is at night after it rains.

i love most how it is at night after it rains. how come?

how come? you can see the stars so much more clearly after it rains.

you can see the stars so much more clearly after it rains. i would love for it to rain today.

i really want to go to the beach this weekend. that sounds like fun. what's the weather going to be like?

that sounds like fun. what's the weather going to be like? i heard that it's going to be warm this weekend.

i heard that it's going to be warm this weekend. is it going to be perfect beach weather?

is it going to be perfect beach weather? i believe so.

i believe so. good. i hope it doesn't cool off this weekend.

good. i hope it doesn't cool off this weekend. i know. i really want to go to the beach.

i know. i really want to go to the beach. but you know that california weather is really unpredictable.

but you know that california weather is really unpredictable. you're right. one minute it's hot, and then the next minute it's cold.

you're right. one minute it's hot, and then the next minute it's cold. i really wish the weather would just stay the same.

i really wish the weather would just stay the same. i do too. that way we can have our activities planned ahead of time.

i do too. that way we can have our activities planned ahead of time. yeah, that would make things a lot easier.

i would like to take a trip to the beach this weekend. a trip to the beach would be fun. how is the weather going to be?

a trip to the beach would be fun. how is the weather going to be? the forecast says that it will be warm on the weekend.

the forecast says that it will be warm on the weekend. so do you think it'll be perfect weather for the beach?

so do you think it'll be perfect weather for the beach? it sounds like it will be.

it sounds like it will be. i really hope it doesn't get cold.

i really hope it doesn't get cold. that would ruin things, i want to go so badly.

that would ruin things, i want to go so badly. the weather in california is unpredictable, so you never know.

the weather in california is unpredictable, so you never know. that is true. the weather is constantly changing.

that is true. the weather is constantly changing. it would be nice if the weather would never change.

it would be nice if the weather would never change. that would be great, then we could plan things sooner.

that would be great, then we could plan things sooner. true. predictable weather would make life easier.

it would be nice to go to the beach sometime this weekend. what's the weather going to be like? i may want to go too.

what's the weather going to be like? i may want to go too. the weather this weekend is supposed to be warm.

the weather this weekend is supposed to be warm. will it be good beach weather?

will it be good beach weather? i think it will be.

i think it will be. it wouldn't be good if it got cold this weekend.

it wouldn't be good if it got cold this weekend. i want this trip to be perfect, i hope it stays warm.

i want this trip to be perfect, i hope it stays warm. this california weather is so uncertain, it's impossible to know what'll happen.

this california weather is so uncertain, it's impossible to know what'll happen. i know. every day the weather seems different.

i know. every day the weather seems different. i would love it if it wasn't always so unpredictable.

i would love it if it wasn't always so unpredictable. that would make it easier for us to make plans.

hello, may i speak to alice please? this is she. how's it going?

this is she. how's it going? i've been trying to call you all day.

i've been trying to call you all day. sorry about that. i was cleaning up.

sorry about that. i was cleaning up. it's okay.

it's okay. so what were you calling me about?

so what were you calling me about? oh, i just wanted to see if you wanted to hang out tomorrow.

oh, i just wanted to see if you wanted to hang out tomorrow. sure, what did you want to do?

sure, what did you want to do? maybe we can go see a movie or something.

maybe we can go see a movie or something. that sounds like fun. let's do it.

that sounds like fun. let's do it. i'll see you tomorrow then.

i'll see you tomorrow then. see you then. goodbye.

hi, how are you. is alice there? speaking. what's up?

speaking. what's up? why haven't you answered the phone?

why haven't you answered the phone? my bad, i had chores to do.

my bad, i had chores to do. that's all right.

that's all right. what was the reason for your call?

what was the reason for your call? i want to do something tomorrow with you.

i want to do something tomorrow with you. sounds good. what did you have in mind?

sounds good. what did you have in mind? i was thinking about seeing a movie.

i was thinking about seeing a movie. okay, let's go see a movie.

okay, let's go see a movie. until then.

until then. talk to you later.

is alice available? you're talking to her.

you're talking to her. i've called you a hundred times today.

i've called you a hundred times today. i was busy doing something. i apologize.

i was busy doing something. i apologize. no problem.

no problem. did you need something?

did you need something? do you want to do something tomorrow?

do you want to do something tomorrow? is there somewhere special you wanted to go?

is there somewhere special you wanted to go? how about a movie?

how about a movie? a movie sounds good.

a movie sounds good. call me tomorrow then.

have you seen the new girl in school? no, i haven't.

no, i haven't. she's really pretty.

she's really pretty. describe her to me.

describe her to me. she's not too tall.

she's not too tall. well, how tall is she?

well, how tall is she? she's about five feet even.

she's about five feet even. what does she look like, though?

what does she look like, though? she has pretty light brown eyes.

she has pretty light brown eyes. i may know which girl you're talking about.

i may know which girl you're talking about. so you have seen her around?

so you have seen her around? yes, i have.

there's a new girl in school, have you seen her yet? i haven't seen her yet.

i haven't seen her yet. i think that she is very pretty.

i think that she is very pretty. tell me how she looks.

tell me how she looks. she's kind of short.

she's kind of short. what height is she?

what height is she? she's probably about five feet.

she's probably about five feet. that's nice, but tell me what she looks like.

that's nice, but tell me what she looks like. the first thing i noticed was her beautiful brown eyes.

the first thing i noticed was her beautiful brown eyes. i think i might've bumped into her before.

i think i might've bumped into her before. are you telling me that you've seen her before?

are you telling me that you've seen her before? i believe so.

have you met the new girl? no. have you?

no. have you? she's one of the prettiest girls at the school.

she's one of the prettiest girls at the school. what does she look like?

what does she look like? well, she's quite short.

well, she's quite short. how tall would you say that she is?

how tall would you say that she is? i would say she's only five feet.

i would say she's only five feet. what about her facial features?

what about her facial features? she has light brown eyes, absolutely beautiful.

she has light brown eyes, absolutely beautiful. i think i know who you're talking about.

i think i know who you're talking about. have you seen her?

why weren't you at school yesterday? i wasn't really feeling well.

i wasn't really feeling well. what was wrong with you?

what was wrong with you? my stomach was upset.

my stomach was upset. do you feel better now?

do you feel better now? i don't really feel too well yet.

i don't really feel too well yet. do you want anything to make you feel better?

do you want anything to make you feel better? no, thanks. i already took some medicine.

no, thanks. i already took some medicine. i hope you feel better.

i hope you feel better. thank you.

what reason do you have for missing school? i was sick.

i was sick. how were you sick?

how were you sick? i had a stomachache.

i had a stomachache. did it get any better?

did it get any better? i'm still feeling under the weather.

i'm still feeling under the weather. would you like anything for your stomach?

would you like anything for your stomach? i took something earlier.

i took something earlier. get better.

get better. thanks a lot.

why didn't you go to school yesterday? i stayed home because i wasn't feeling well.

i stayed home because i wasn't feeling well. what was your problem?

what was your problem? my stomach was bothering me.

my stomach was bothering me. are you feeling any better?

are you feeling any better? i'm still feeling a little sick.

i'm still feeling a little sick. i'm going to the store, would you like any pepto bismol?

i'm going to the store, would you like any pepto bismol? that's okay.

that's okay. i hope you feel better.

did you hear the good news? no, i haven't.

no, i haven't. i got a promotion at my job.

i got a promotion at my job. did you really?

did you really? seriously, i am so excited.

seriously, i am so excited. well, congratulations.

well, congratulations. thank you.

thank you. i'm so happy for you.

i'm so happy for you. really?

really? yes. you really deserved this.

yes. you really deserved this. you think so?

you think so? yes. good for you.

have you heard my good news? you haven't told me anything yet.

you haven't told me anything yet. i got a promotion at work earlier this week.

i got a promotion at work earlier this week. is that right?

is that right? it's the truth. i am really happy.

it's the truth. i am really happy. congratulations on your promotion.

congratulations on your promotion. thank you very much.

thank you very much. i am really excited for you.

i am really excited for you. are you really?

are you really? i'm serious. you deserved this promotion.

i'm serious. you deserved this promotion. is that what you really think?

is that what you really think? yes, i do.

i haven't told you what happened yet, have i? i haven't heard anything.

i haven't heard anything. my boss offered me a promotion, and i took it.

my boss offered me a promotion, and i took it. are you serious?

are you serious? yes, i am really excited.

yes, i am really excited. that's great. congratulations.

that's great. congratulations. i appreciate that.

i appreciate that. you have no idea how happy i am for you.

you have no idea how happy i am for you. for real?

you look really nice today. thank you. i just got this outfit the other day.

thank you. i just got this outfit the other day. really, where did you get it?

really, where did you get it? i got it from macy's.

i got it from macy's. it's really nice.

it's really nice. thanks again. you look nice today, too.

thanks again. you look nice today, too. thank you. i just got these shoes today.

thank you. i just got these shoes today. really? what kind of shoes are they?

really? what kind of shoes are they? these are called all star chuck taylors.

these are called all star chuck taylors. i really like those. how much did they cost?

i really like those. how much did they cost? they were about forty dollars.

they were about forty dollars. i think i'm going to go buy myself a pair.

i absolutely love what you're wearing today. you do? i just bought this outfit a couple days ago.

you do? i just bought this outfit a couple days ago. seriously, it looks really nice on you. where did you buy it from?

seriously, it looks really nice on you. where did you buy it from? i bought it from the macy's at the santa anita mall.

i bought it from the macy's at the santa anita mall. i really like that outfit.

i really like that outfit. thanks. i think you look nice today, too.

thanks. i think you look nice today, too. thank you. i just bought these new shoes earlier today.

thank you. i just bought these new shoes earlier today. those are nice. what are they?

those are nice. what are they? these are some chucks.

these are some chucks. those are great. how much were they?

those are great. how much were they? i got them for forty.

i got them for forty. i think i might go and find me my own pair of chucks.

i think that you look very cute today. is that right? this is a brand new outfit.

is that right? this is a brand new outfit. what store did you get it from?

what store did you get it from? i went to macy's and picked it out.

i went to macy's and picked it out. i love your outfit right now.

i love your outfit right now. well, i think you look nice today too.

well, i think you look nice today too. thanks. i found these new shoes earlier at the store.

thanks. i found these new shoes earlier at the store. i think that those are some really nice shoes. what kind are they?

i think that those are some really nice shoes. what kind are they? these are chucks.

these are chucks. your shoes look really nice. how much did you get them for?

your shoes look really nice. how much did you get them for? they only cost me about forty dollars.

tell me, what do you enjoy doing in your spare time? i enjoy drawing and painting.

i enjoy drawing and painting. you know how to draw and paint?

you know how to draw and paint? yes, i do.

yes, i do. when did you learn how to do that?

when did you learn how to do that? i learned back in high school.

i learned back in high school. oh, so you took an art class?

oh, so you took an art class? yeah, i loved that class.

yeah, i loved that class. i see that you're pretty talented.

i see that you're pretty talented. thank you very much.

thank you very much. i wish i had a talent like that.

i wish i had a talent like that. i'm sure you have a talent. it's just hidden.

what kinds of things do you like to do? i've always liked to draw and paint.

i've always liked to draw and paint. i didn't know you knew how to draw and paint.

i didn't know you knew how to draw and paint. i do it every once in a while.

i do it every once in a while. how long have you known how to do that?

how long have you known how to do that? i first learned how to do it in high school.

i first learned how to do it in high school. did you take some sort of art class or something?

did you take some sort of art class or something? that was my favorite class.

that was my favorite class. you have got to be talented.

you have got to be talented. thanks.

thanks. if only i was talented.

if only i was talented. you have a talent. you just don't know what it is yet.

are there any hobbies you do? when i have time, i sometimes draw and paint.

when i have time, i sometimes draw and paint. oh, you actually do that?

oh, you actually do that? every so often, i do.

every so often, i do. did you always know how to draw and paint?

did you always know how to draw and paint? i was taught in high school how to draw and paint.

i was taught in high school how to draw and paint. you had an art class?

you had an art class? exactly, it was my favorite class.

exactly, it was my favorite class. well, it's good that you're so talented.

well, it's good that you're so talented. i appreciate that.

i appreciate that. talent is a great thing, i wish i had one.

what's your favorite movie? my favorite movie is superbad.

my favorite movie is superbad. oh, why is that?

oh, why is that? it's the funniest movie that i've ever seen.

it's the funniest movie that i've ever seen. that's true. it is a very funny movie.

that's true. it is a very funny movie. you've seen it before?

you've seen it before? yes, i saw that movie the first day it came out in theaters.

yes, i saw that movie the first day it came out in theaters. didn't you laugh through the whole movie? i did.

didn't you laugh through the whole movie? i did. me too. that movie brought tears to my eyes.

me too. that movie brought tears to my eyes. mine too.

mine too. i have it on dvd at my house if you want to come over and watch it.

i have it on dvd at my house if you want to come over and watch it. sure, let's go.

which movie is your favorite to watch? i have to say, my favorite movie is superbad.

i have to say, my favorite movie is superbad. is that right? why?

is that right? why? honestly, it is one of the funniest movies i've seen in a long time.

honestly, it is one of the funniest movies i've seen in a long time. you're right. that movie is hilarious.

you're right. that movie is hilarious. i didn't think you saw that movie.

i didn't think you saw that movie. i went to see it the day it came out.

i went to see it the day it came out. i was laughing through the whole movie.

i was laughing through the whole movie. i couldn't help laughing, either.

i couldn't help laughing, either. same here.

same here. i bought the movie. would you like to come to my house and watch it?

i bought the movie. would you like to come to my house and watch it? of course.

out of every movie that you've seen, which one is your favorite? i'm going to have to say that superbad is the best movie ever.

i'm going to have to say that superbad is the best movie ever. you think so, how come?

you think so, how come? well, superbad is super funny.

well, superbad is super funny. you're not lying, i found that movie absolutely hilarious.

you're not lying, i found that movie absolutely hilarious. i didn't know that you saw superbad before.

i didn't know that you saw superbad before. i made sure to be in line to see it the first day it came out.

i made sure to be in line to see it the first day it came out. i couldn't keep from laughing throughout the whole movie.

i couldn't keep from laughing throughout the whole movie. i was laughing hysterically the whole time; my stomach muscles hurt afterwards.

i was laughing hysterically the whole time; my stomach muscles hurt afterwards. that's exactly how i felt.

that's exactly how i felt. i got the movie when it came out on dvd, do you want to come over?

what type of music do you like to listen to? i like listening to different kinds of music.

i like listening to different kinds of music. like what, for instance?

like what, for instance? i enjoy rock and r&b.

i enjoy rock and r&b. why is that?

why is that? i like the different instruments that they use.

i like the different instruments that they use. that's a good reason to like something.

that's a good reason to like something. yeah, i think so too.

what kind of music do you enjoy listening to? i enjoy listening to all kinds of music.

i enjoy listening to all kinds of music. what kind?

what kind? i like to listen to rock and r&b.

i like to listen to rock and r&b. why do you like that type of music?

why do you like that type of music? i like the kinds of instruments that they use.

i like the kinds of instruments that they use. i think that's an excellent reason to like something.

i think that's an excellent reason to like something. thanks, i feel the same way.

what is your favorite kind of music? i listen to various types of music.

i listen to various types of music. what genres?

what genres? i enjoy listening to both rock and r&b.

i enjoy listening to both rock and r&b. what interests you in that type of music?

what interests you in that type of music? i enjoy the different types of instruments that they use.

i enjoy the different types of instruments that they use. that is a perfect reason to like a certain kind of music.

did you go to the basketball game on friday? no, i couldn't make it.

no, i couldn't make it. you missed a really good game.

you missed a really good game. oh, really? who won?

oh, really? who won? our school did. they played really well.

our school did. they played really well. too bad i was busy. i really wanted to go.

too bad i was busy. i really wanted to go. yeah, you should have. it was really exciting.

yeah, you should have. it was really exciting. so what was the score?

so what was the score? the score was 101-98.

the score was 101-98. man, that was a really close game.

man, that was a really close game. that's what made it so great.

that's what made it so great. i'll make sure and make it to the next one.

were you able to attend friday night's basketball game? i was unable to make it.

i was unable to make it. you should have been there. it was intense.

you should have been there. it was intense. is that right. who ended up winning?

is that right. who ended up winning? our team was victorious.

our team was victorious. i wish i was free that night. i'm kind of mad that i didn't go.

i wish i was free that night. i'm kind of mad that i didn't go. it was a great game.

it was a great game. what was the score at the end of the game?

what was the score at the end of the game? our team won 101-98.

our team won 101-98. sounds like it was a close game.

sounds like it was a close game. that's the reason it was such a great game.

that's the reason it was such a great game. the next game, i will definitely be there.

i was meaning to ask you if you saw the basketball game on friday. i wanted to go, but i couldn't.

i wanted to go, but i couldn't. it was a great game.

it was a great game. it's too bad that i couldn't make it. who won?

it's too bad that i couldn't make it. who won? our team played hard and won.

our team played hard and won. i really wish i went to the game.

i really wish i went to the game. it was the best game ever.

it was the best game ever. so tell me the final score.

so tell me the final score. the other team lost by three points, 101-98.

the other team lost by three points, 101-98. it must've been a close game.

it must've been a close game. it really was. you should've gone.

what are you doing this weekend? i'm going to the movies with a friend. how about you?

i'm going to the movies with a friend. how about you? i'm not sure yet.

i'm not sure yet. well, did you want to go see a movie with me?

well, did you want to go see a movie with me? what movie are you going to see?

what movie are you going to see? i'm not sure yet. is there something you want to see?

i'm not sure yet. is there something you want to see? there's nothing i can think of.

there's nothing i can think of. so, did you want to go?

so, did you want to go? no, thanks, maybe another time.

no, thanks, maybe another time. okay, sounds good.

do you know what you're going to do this weekend? i am going to see a movie with a friend of mine. what about you?

i am going to see a movie with a friend of mine. what about you? i don't know.

i don't know. would you like to see a movie with me and my friend?

would you like to see a movie with me and my friend? do you know what movie you're going to watch?

do you know what movie you're going to watch? i don't know, but was there a certain movie you wanted to see?

i don't know, but was there a certain movie you wanted to see? none that i can think of.

none that i can think of. well, would you like to go?

well, would you like to go? thank you for inviting me, but i think i'll pass.

thank you for inviting me, but i think i'll pass. all right. another time then.

you have any ideas as to what you want to do this weekend? i'm going to the movie theater with my friend. what are you going to do?

i'm going to the movie theater with my friend. what are you going to do? i'm not quite sure yet.

i'm not quite sure yet. how about you see a movie with me and my friend?

how about you see a movie with me and my friend? what movie are you and your friend planning on watching?

what movie are you and your friend planning on watching? not sure. is there a movie out that catches your eye?

not sure. is there a movie out that catches your eye? no good movies come to mind.

no good movies come to mind. have you decided whether or not you would like to go?

have you decided whether or not you would like to go? no, thanks. maybe another time.

did you go to school today? yeah, i went to school today. were you there?

yeah, i went to school today. were you there? no, i didn't go, i've been sick.

no, i didn't go, i've been sick. that sucks. did you want the assignments from english class?

that sucks. did you want the assignments from english class? that would be nice, thank you.

that would be nice, thank you. no problem, you're welcome.

no problem, you're welcome. i will be glad to do the same for you when you're sick.

i will be glad to do the same for you when you're sick. well, thank you. i hope to see you at school tomorrow.

have you attended school today? i attended school today. did you?

i attended school today. did you? i wasn't able to attend school because i was feeling ill.

i wasn't able to attend school because i was feeling ill. i'm sorry to hear that. would you like the assignments from english class?

i'm sorry to hear that. would you like the assignments from english class? i would really appreciate that, thanks.

i would really appreciate that, thanks. it's no trouble at all.

it's no trouble at all. if you get sick, i'll return the favor.

if you get sick, i'll return the favor. thanks. see you at school tomorrow if you feel better.

have you gone to school today? i went to school today. did you go to school?

i went to school today. did you go to school? i couldn't go to school today, i was sick.

i couldn't go to school today, i was sick. that's horrible. i'd be happy to give you the assignments from english class.

that's horrible. i'd be happy to give you the assignments from english class. thank you very much, that's kind of you.

thank you very much, that's kind of you. don't mention it.

don't mention it. when you miss a day of school, i'll be happy to give you the english assignments.

did you hear the news? what happened?

what happened? our cousin went into labor and had her baby last week.

our cousin went into labor and had her baby last week. she did? why didn't anyone tell me?

she did? why didn't anyone tell me? i would've thought that somebody would have told you.

i would've thought that somebody would have told you. no, i had no idea.

no, i had no idea. well, she did, her baby was 8 pounds 6 ounces.

well, she did, her baby was 8 pounds 6 ounces. oh my god, that's great!

oh my god, that's great! are you going to go and visit her and the baby?

are you going to go and visit her and the baby? i think that i might.

i think that i might. good! i just thought i'd let you know.

good! i just thought i'd let you know. thanks for telling me.

have you heard what happened? heard what?

heard what? debrah already had her baby.

debrah already had her baby. i didn't know that.

i didn't know that. i thought you knew.

i thought you knew. i honestly didn't know.

i honestly didn't know. the baby was 8 pounds 6 ounces.

the baby was 8 pounds 6 ounces. that's good to hear.

that's good to hear. will you go and visit them?

will you go and visit them? of course i will.

of course i will. i just wanted to give you the good news.

i just wanted to give you the good news. thanks for letting me know.

have you heard the news? i haven't heard anything.

i haven't heard anything. debrah had her baby last week.

debrah had her baby last week. nobody told me.

nobody told me. i thought you heard.

i thought you heard. i really wasn't told anything.

i really wasn't told anything. she was a cute 8 pounds 6 ounces.

she was a cute 8 pounds 6 ounces. wow, how exciting.

wow, how exciting. i know, you should really go and see her and the baby.

i know, you should really go and see her and the baby. of course i will.

of course i will. i just wanted to let you know what happened.

did you go to school today? of course. did you?

of course. did you? i didn't want to, so i didn't.

i didn't want to, so i didn't. that's sad, but have you gone to the movies recently?

that's sad, but have you gone to the movies recently? that's a switch.

that's a switch. i'm serious, have you?

i'm serious, have you? no, i haven't. why?

no, i haven't. why? i really want to go to the movies this weekend.

i really want to go to the movies this weekend. so go then.

so go then. i really don't want to go by myself.

i really don't want to go by myself. well anyway, do you plan on going to school tomorrow?

well anyway, do you plan on going to school tomorrow? no, i think i'm going to go to the movies.

did you make it to school today? i always do. did you go to school today?

i always do. did you go to school today? no, i didn't.

no, i didn't. you should have, but have you seen any movies lately?

you should have, but have you seen any movies lately? that was an odd change of subject.

that was an odd change of subject. maybe it was, but answer the question.

maybe it was, but answer the question. no, not recently.

no, not recently. i want to go to see a movie this weekend.

i want to go to see a movie this weekend. what's stopping you then?

what's stopping you then? i don't want to go alone.

i don't want to go alone. so, will you be at school tomorrow?

so, will you be at school tomorrow? no, i want to go to the movies instead.

did you even bother to go to school today? yeah, i went. did you go?

yeah, i went. did you go? no, i didn't feel like it.

no, i didn't feel like it. that's nice, have you been to the movies lately?

that's nice, have you been to the movies lately? no, but that was a random change of subject.

no, but that was a random change of subject. it may have been random, but have you?

it may have been random, but have you? i haven't lately.

i haven't lately. i would love to catch a movie this weekend.

i would love to catch a movie this weekend. so then, why don't you just go?

so then, why don't you just go? i don't want to see a movie by myself.

i don't want to see a movie by myself. okay, so are you going to school tomorrow?

thanks for coming to see me today. it's no problem. i was really missing you anyway.

it's no problem. i was really missing you anyway. i missed you too.

i missed you too. why haven't you tried to come see me then?

why haven't you tried to come see me then? i've been really busy.

i've been really busy. doing what?

doing what? working.

working. i would've come to see you sooner, but i've been busy too.

i would've come to see you sooner, but i've been busy too. what have you been doing?

what have you been doing? i've been working too.

i've been working too. well regardless, i'm very happy that you came to see me.

well regardless, i'm very happy that you came to see me. i am too.

i'm really glad that you came to see me. i had to. i was missing you a lot.

i had to. i was missing you a lot. i was missing you too.

i was missing you too. so, why haven't you visited me?

so, why haven't you visited me? i've actually been busy lately.

i've actually been busy lately. what have you been doing?

what have you been doing? i've just been working really hard.

i've just been working really hard. i've also been busy.

i've also been busy. tell me what you've been doing.

tell me what you've been doing. basically, i've been working too.

basically, i've been working too. well whatever, i'm glad you came.

well whatever, i'm glad you came. so am i.

i'm really happy that you came to visit me. i really missed you a lot.

i really missed you a lot. i've been missing you like crazy.

i've been missing you like crazy. i don't understand why you haven't come to visit me.

i don't understand why you haven't come to visit me. lately, i've been quite busy.

lately, i've been quite busy. tell me what you've been up to.

tell me what you've been up to. i've really been working a lot lately.

i've really been working a lot lately. i've been pretty busy myself.

i've been pretty busy myself. so what have you been up to?

so what have you been up to? i've just been working a lot.

i've just been working a lot. whatever the reason may be, i'm glad you visited me.

hey, did you hear about jessica's party this weekend? yeah, but i'm still waiting for my invitation.

yeah, but i'm still waiting for my invitation. oh really? she gave me mine earlier today.

oh really? she gave me mine earlier today. well, she'll probably just give me my invitation later on today.

well, she'll probably just give me my invitation later on today. yeah, so are you planning on going?

yeah, so are you planning on going? i think so. it sounds like it's going to be a lot of fun.

i think so. it sounds like it's going to be a lot of fun. it really does, i can't wait.

it really does, i can't wait. what time does the party start?

what time does the party start? it starts at 8 o'clock.

it starts at 8 o'clock. oh, well, how many people has she given invites to so far?

oh, well, how many people has she given invites to so far? i'm not sure, but i don't think she's given out that many.

i'm not sure, but i don't think she's given out that many. well, hopefully she'll give me my invite later on today.

have you heard about jessica's party on saturday? i've heard about it, but i'm still waiting for my invitation.

i've heard about it, but i'm still waiting for my invitation. really? i got mine from her this morning.

really? i got mine from her this morning. i'm guessing that she's going to give me my invite today or tomorrow.

i'm guessing that she's going to give me my invite today or tomorrow. you're probably right, do you intend on going to the party?

you're probably right, do you intend on going to the party? i want to. i heard it's going to be really fun.

i want to. i heard it's going to be really fun. i know, it does sound pretty awesome.

i know, it does sound pretty awesome. well, when does the party start?

well, when does the party start? it's supposed to start at about eight.

it's supposed to start at about eight. how many invitations has she given out?

how many invitations has she given out? i really don't know, but i don't think she gave out that many yet.

i really don't know, but i don't think she gave out that many yet. i really want to go, so i hope that she gives me my invite soon.

has anyone told you about jessica's party coming up? i was told about it already. i'm just waiting for my invitation.

i was told about it already. i'm just waiting for my invitation. is that right? i already got my invitation from her earlier.

is that right? i already got my invitation from her earlier. i believe that she will give me the invitation today.

i believe that she will give me the invitation today. are you even going to go?

are you even going to go? yeah, it sounds like it's going to be the best party of the year.

yeah, it sounds like it's going to be the best party of the year. exactly, it seems like it's going to be loads of fun.

exactly, it seems like it's going to be loads of fun. when exactly does the party start?

when exactly does the party start? the invitation says it starts at 8:00 p.m.

the invitation says it starts at 8:00 p.m. has she given out a lot of invitations yet?

has she given out a lot of invitations yet? i have no idea, she hasn't given out many though.

hey, what's up? nothing really.

nothing really. i'm throwing a party on friday.

i'm throwing a party on friday. i didn't realize that.

i didn't realize that. you didn't?

you didn't? nobody has told me anything about your party.

nobody has told me anything about your party. did you want to go?

did you want to go? when does it start?

when does it start? at 8:00 p.m.

at 8:00 p.m. i'll be there.

i'll be there. i'd better see you there.

i'd better see you there. of course.

what's going on with you? fine. what's going on with you?

fine. what's going on with you? i'm having a party this friday.

i'm having a party this friday. i had no idea.

i had no idea. is that right?

is that right? i didn't hear anything about it.

i didn't hear anything about it. can you go?

can you go? what time?

what time? it starts at 8 o'clock.

it starts at 8 o'clock. i'll go.

i'll go. i hope that i'll see you there.

i hope that i'll see you there. no doubt.

what's going on? not much.

not much. this friday, i'm throwing a party.

this friday, i'm throwing a party. oh really? i didn't know that.

oh really? i didn't know that. are you serious?

are you serious? i haven't heard anything about it.

i haven't heard anything about it. can you make it?

can you make it? what time does it start?

what time does it start? the party starts at 8.

the party starts at 8. yeah, i think i'll go.

yeah, i think i'll go. am i going to see you there?

what's going on? nothing really, you?

nothing really, you? i'm throwing a party next saturday.

i'm throwing a party next saturday. is that right?

is that right? yeah, are you going to come?

yeah, are you going to come? i'm sorry, i can't.

i'm sorry, i can't. why not?

why not? i don't really want to.

i don't really want to. well, why don't you?

well, why don't you? i hate going to parties.

i hate going to parties. well, that's okay.

well, that's okay. yeah, sorry.

what's up? nothing, how about you?

nothing, how about you? next saturday, i'm going to have a party.

next saturday, i'm going to have a party. oh, really?

oh, really? you are coming?

you are coming? probably not.

probably not. why is that?

why is that? i don't feel like going.

i don't feel like going. why not?

why not? i really can't stand going to parties.

i really can't stand going to parties. i understand, i guess.

i understand, i guess. sorry about that.

what's happening? not a lot, what about you?

not a lot, what about you? i'm having a party next saturday.

i'm having a party next saturday. that's nice.

that's nice. are you going to be there?

are you going to be there? i don't think so.

i don't think so. is there a reason why?

is there a reason why? i just really don't want to go.

i just really don't want to go. how come?

how come? i don't really like parties.

i don't really like parties. i wish you would go, but that's okay.

what's up? nothing much, what's going on?

nothing much, what's going on? i'm having a party this friday.

i'm having a party this friday. oh, really? that's nice.

oh, really? that's nice. i wanted to see if you wanted to come.

i wanted to see if you wanted to come. this friday? sorry, i already have plans.

this friday? sorry, i already have plans. doing what?

doing what? i'm going to dinner with my family.

i'm going to dinner with my family. i really wanted you to come, but i understand.

i really wanted you to come, but i understand. yeah, maybe next time.

yeah, maybe next time. i'll hold you to that.

i'll hold you to that. sounds like a plan.

hey, what's good with you? not a lot. what about you?

not a lot. what about you? i'm throwing a party on friday.

i'm throwing a party on friday. that sounds like fun.

that sounds like fun. do you think you can come?

do you think you can come? i'm sorry. i'm already doing something this friday.

i'm sorry. i'm already doing something this friday. what are you going to be doing?

what are you going to be doing? my family and i are going to dinner.

my family and i are going to dinner. i was hoping you would come.

i was hoping you would come. i'll definitely try to make it the next time.

i'll definitely try to make it the next time. i'd better see you there.

i'd better see you there. all right. i'll see you next time.

what's going on? nothing really. how about you?

nothing really. how about you? a lot, like the party i'm having on friday.

a lot, like the party i'm having on friday. well, that's cool.

well, that's cool. will you be able to make it?

will you be able to make it? i'm busy this friday. i'm sorry.

i'm busy this friday. i'm sorry. what do you have to do?

what do you have to do? i'm having dinner with my family

i'm having dinner with my family maybe you can come next time.

maybe you can come next time. i'll make sure and come to your next party.

i'll make sure and come to your next party. i'll look for you at my next party.

it was nice talking to you. why are you trying to rush me off the phone?

why are you trying to rush me off the phone? i really have to go.

i really have to go. why? i still wanted to talk to you.

why? i still wanted to talk to you. i have things to do.

i have things to do. like what?

like what? don't be nosey.

don't be nosey. i'm not. i just want to know.

i'm not. i just want to know. well, it's really none of your business.

well, it's really none of your business. that's harsh.

that's harsh. i'm sorry, but i have to go.

i'm sorry, but i have to go. fine.

i've enjoyed conversing with you. is there a reason why you're trying to get off the phone so fast?

is there a reason why you're trying to get off the phone so fast? i've got to go.

i've got to go. i wasn't done talking to you.

i wasn't done talking to you. i have to do some things, and besides, it's not polite to be nosey.

i have to do some things, and besides, it's not polite to be nosey. i'm not being nosey. i'm just asking.

i'm not being nosey. i'm just asking. i really don't think it's any of your business.

i really don't think it's any of your business. that's not nice.

that's not nice. i apologize, but i'm getting off the phone now.

i apologize, but i'm getting off the phone now. okay.

i'll talk to you later. what's the rush?

what's the rush? i have to get off the phone now.

i have to get off the phone now. i'm not ready to get off the phone with you.

i'm not ready to get off the phone with you. there are other things i need to take care of.

there are other things i need to take care of. what is it that you need to do?

what is it that you need to do? please don't be nosey.

please don't be nosey. i'm not being nosey, it's just a question.

i'm not being nosey, it's just a question. you don't need to worry about that.

you don't need to worry about that. that was mean to say.

that was mean to say. i am very sorry, but i must go.

well, it was nice talking to you. it was nice talking to you too.

it was nice talking to you too. we should really hang out again.

we should really hang out again. that would be fun.

that would be fun. where do you want to go?

where do you want to go? i think we should go out to eat.

i think we should go out to eat. that sounds good.

that sounds good. all right, so i'll see you then.

all right, so i'll see you then. i'll call you later.

i'll call you later. okay, i'll talk to you later then.

okay, i'll talk to you later then. see you later.

see you later. bye.

i enjoyed talking to you. i enjoyed talking to you too.

i enjoyed talking to you too. we should hang out some time.

we should hang out some time. i think that would be nice.

i think that would be nice. is there anything you would like to do next time?

is there anything you would like to do next time? do you want to go out to eat?

do you want to go out to eat? i'd like that.

i'd like that. so i'll see you next time.

so i'll see you next time. i'm going to call you soon.

i'm going to call you soon. i'll talk to you later.

i'll talk to you later. see you soon.

see you soon. goodbye.

i had fun talking to you. it was really nice talking to you also.

it was really nice talking to you also. i think we should really do something sometime.

i think we should really do something sometime. that should be loads of fun.

that should be loads of fun. what do you want to do next time?

what do you want to do next time? would you like to go to dinner or something?

would you like to go to dinner or something? yeah, let's do that.

yeah, let's do that. okay, until next time then.

okay, until next time then. i'll call you so we can set that up.

i'll call you so we can set that up. talk to you then.

talk to you then. all right, see you.

where do you live? i live in pasadena.

i live in pasadena. where is pasadena?

where is pasadena? it's in california.

it's in california. is it in northern california?

is it in northern california? no. it's in southern california.

no. it's in southern california. is pasadena a big city?

is pasadena a big city? it's pretty big.

it's pretty big. how big is "pretty big"?

how big is "pretty big"? it has about 140,000 people.

it has about 140,000 people. how big is los angeles?

how big is los angeles? it has about 3 million people.

do you have a car? yes, i do.

yes, i do. what kind of car do you have?

what kind of car do you have? i have a honda.

i have a honda. is it new?

is it new? it was new in 2003.

it was new in 2003. so, it's pretty old now.

so, it's pretty old now. yes, it is. but it still looks good.

yes, it is. but it still looks good. do you take good care of it?

do you take good care of it? oh, yes. i wash it once a week.

oh, yes. i wash it once a week. do you change the oil?

do you change the oil? my mechanic changes the oil twice a year.

do you have a girlfriend? no, i don't. do you?

no, i don't. do you? i don't have a girlfriend, either.

i don't have a girlfriend, either. why not?

why not? i don't know. maybe i'm not rich enough.

i don't know. maybe i'm not rich enough. girls like guys with money.

girls like guys with money. they sure do.

they sure do. they like guys with new cars.

they like guys with new cars. i don't have money or a new car.

i don't have money or a new car. me, neither.

me, neither. but girls like guys who are funny.

but girls like guys who are funny. maybe we should learn some good jokes.

where are you going? i have to walk the dog.

i have to walk the dog. what kind of dog do you have?

what kind of dog do you have? i have a little poodle.

i have a little poodle. poodles bark a lot.

poodles bark a lot. they sure do.

they sure do. they bark at everything.

they bark at everything. they never shut up.

they never shut up. why did you get a poodle?

why did you get a poodle? it's my mom's dog.

it's my mom's dog. so she likes poodles.

so she likes poodles. she says they're good watchdogs.

can i borrow \$5? sure. why do you need it?

sure. why do you need it? i want to buy lunch.

i want to buy lunch. where's your money?

where's your money? it's not in my wallet.

it's not in my wallet. your wallet is empty?

your wallet is empty? i don't have even one dollar in it.

i don't have even one dollar in it. being broke is no fun.

being broke is no fun. even if it's only for a short while.

even if it's only for a short while. it's always good to have friends.

it's always good to have friends. friends will lend you money when you're broke.

friends will lend you money when you're broke. as long as you pay them back.

let's go to the beach. that's a great idea.

that's a great idea. we haven't been in a while.

we haven't been in a while. we haven't been in a month.

we haven't been in a month. the last time we went, you almost drowned.

the last time we went, you almost drowned. no, i didn't.

no, i didn't. then why did the lifeguard dive into the water?

then why did the lifeguard dive into the water? i think he wanted to cool off.

i think he wanted to cool off. he swam right up to you.

he swam right up to you. and then he turned right around.

and then he turned right around. maybe you're right.

maybe you're right. maybe we should get going.

are you married? no. i'm divorced.

no. i'm divorced. when did you get divorced?

when did you get divorced? i got divorced two years ago.

i got divorced two years ago. why did you get divorced?

why did you get divorced? my wife left me.
my wife left me. why did she leave you?
why did she leave you? she said she didn't love me anymore.
she said she didn't love me anymore. wow! that's terrible.
wow! that's terrible. yes, it was.
yes, it was. why didn't she love you anymore?
why didn't she love you anymore? she fell in love with my best friend.
i'm bored. what's on tv?
what's on tv? nothing.
nothing. there must be something on tv!
there must be something on tv! nothing that's interesting.
nothing that's interesting. what about that new game show?
what about that new game show? which one?
which one? "deal or no deal"
"deal or no deal" tell me you're joking.
tell me you're joking. i love that show.
i love that show. i watched it once. that was enough.
i watched it once. that was enough. it's on right now. let's watch it together.
i like living here. i agree. pasadena is a nice city.
i agree. pasadena is a nice city. it's not too big.
it's not too big. and it's not too small.
and it's not too small. it has great weather all year long.
it has great weather all year long. it has the rose parade.
it has the rose parade. it has beautiful houses.
it has beautiful houses. it has wonderful restaurants.
it has wonderful restaurants. it has great schools.
it has great schools. it's close to the mountains.
it's close to the mountains. the people are friendly.
the people are friendly. i'm not ever going to leave.

we need a new mattress. what's the matter with this one?

what's the matter with this one? it's not comfortable.

it's not comfortable. it seems fine to me.

it seems fine to me. i toss and turn all night.

i toss and turn all night. you should stop drinking coffee.

you should stop drinking coffee. look at these marks on my arms.

look at these marks on my arms. what are they?

what are they? they are bites.

they are bites. did the cat bite you?

did the cat bite you? no. the bedbugs in that mattress bit me.

no. the bedbugs in that mattress bit me. okay. let's get a new mattress.

my laptop is so slow. buy a new one.

buy a new one. i would if i had the money.

i would if i had the money. why is it so slow?

why is it so slow? that's a good question.

that's a good question. did you take it to a computer shop?

did you take it to a computer shop? i would if i had the money.

i would if i had the money. well, i guess you have to live with it.

well, i guess you have to live with it. sometimes i want to throw it out the window.

sometimes i want to throw it out the window. you don't want to do that.

you don't want to do that. why not?

why not? you might hit someone in the head.

what's for dinner? i'm not sure.

i'm not sure. how about a pizza?

how about a pizza? you had pizza for lunch.

you had pizza for lunch. but i love pizza.

but i love pizza. everybody loves pizza.

everybody loves pizza. so why can't i have pizza for dinner?

so why can't i have pizza for dinner? because you need variety.

because you need variety. what's "variety?"

what's "variety?" different things—not the same thing all the time.

different things—not the same thing all the time. you mean, like a pepperoni pizza instead of a cheese pizza?

you mean, like a pepperoni pizza instead of a cheese pizza? no, i mean a salad instead of a pizza.

we need to save money. why do we need to save money?

why do we need to save money? because we need to buy a house.

because we need to buy a house. but a house is so expensive.

but a house is so expensive. that's why we need to save money.

that's why we need to save money. how much do we need to save?

how much do we need to save? we need to save enough for a down payment.

we need to save enough for a down payment. how much is that?

how much is that? that's about \$30,000.

that's about \$30,000. thirty thousand dollars! that will take forever.

thirty thousand dollars! that will take forever. not if we save every penny.

not if we save every penny. okay. here's seven pennies.

the ocean is so big. you can't see the end of it.

you can't see the end of it. it goes on and on forever.

it goes on and on forever. and it's deep, too.

and it's deep, too. i think it's five miles deep.

i think it's five miles deep. are there fish at the bottom?

are there fish at the bottom? there are fish at the top and the bottom.

there are fish at the top and the bottom. are there more fish or more people?

are there more fish or more people? i think there are more fish.

i think there are more fish. i hope so. i love to eat fish.

i'm upset with my mom. why is that?

why is that? i warned her about her new boyfriend. she didn't listen to me.

i warned her about her new boyfriend. she didn't listen to me. what happened?

what happened? i gave her \$1,000 for her birthday. i told her to spend it on herself.

i gave her \$1,000 for her birthday. i told her to spend it on herself. that was very nice of you.

that was very nice of you. i found out that she gave it to her new boyfriend.

i found out that she gave it to her new boyfriend. why did she do that?

why did she do that? he said he would buy her a nice ring.

he said he would buy her a nice ring. what's wrong with that?

what's wrong with that? he went to las vegas. he lost it all gambling.

he went to las vegas. he lost it all gambling. i hope your mom broke up with him.

do animals talk to each other? of course they talk to each other.

of course they talk to each other. what do they talk about?

what do they talk about? they talk about other animals.

they talk about other animals. what else do they talk about?

what else do they talk about? they talk about food and the weather.

they talk about food and the weather. do they talk about us?

do they talk about us? of course they talk about us.

of course they talk about us. what do they say about us?

what do they say about us? they say that we are funny-looking.

they say that we are funny-looking. ha! we're not funny-looking; animals are funny-looking.

ha! we're not funny-looking; animals are funny-looking. we're funny-looking because we wear clothes.

i have to clean the house. yes, it's very dirty.

yes, it's very dirty. you can help me.

you can help me. why me?

why me? because you helped make it dirty.

because you helped make it dirty. what do you want me to do?

what do you want me to do? i want you to clean the bathroom.

i want you to clean the bathroom. oh, that's easy.

oh, that's easy. clean the sink, the tub, the counter, and the toilet.

clean the sink, the tub, the counter, and the toilet. that's a lot of work.

that's a lot of work. tell me when you finish.

tell me when you finish. i don't think so. you'll just give me more work.

you're watching too much tv. what do you mean?

what do you mean? i mean you're wasting your life.

i mean you're wasting your life. i'm having fun.

i'm having fun. you're sitting there with your mouth open.

you're sitting there with your mouth open. who cares?

who cares? i care. do something.

i care. do something. okay. i did something.

okay. i did something. what did you do?

what did you do? i turned up the volume.

i turned up the volume. that's not what i meant by "do something."

that's not what i meant by "do something." will you do something? leave me alone.

did you write a letter to grandma? yes, i did.

yes, i did. did you tell her about school?

did you tell her about school? i told her that school is fun.

i told her that school is fun. did you put the letter in an envelope?

did you put the letter in an envelope? yes, and i sealed the envelope.

yes, and i sealed the envelope. did you put a stamp on the envelope?

did you put a stamp on the envelope? i couldn't find any stamps.

i couldn't find any stamps. they're in the kitchen drawer.

they're in the kitchen drawer. okay. i just put a stamp on the envelope.

okay. i just put a stamp on the envelope. give me the envelope, and i'll mail it for you.

give me the envelope, and i'll mail it for you. when is grandma going to learn about e-mail?

why are you yawning? i'm sleepy.

i'm sleepy. why don't you go to bed?

why don't you go to bed? i want to watch this tv show.

i want to watch this tv show. maybe you should record it.
maybe you should record it. the tape recorder is broken.
the tape recorder is broken. then you should watch the rerun.
then you should watch the rerun. why? i'm watching the original.
why? i'm watching the original. but you'll be asleep in about one minute.
but you'll be asleep in about one minute. i'm just yawning because the commercials are on.
i'm just yawning because the commercials are on. okay. i'll tell you how the show
ends.
okay. i'll tell you how the show ends. zzz.
it's sunday. so?
so? you know what that means.
you know what that means. i forgot.
i forgot. sunday means we go to church.
sunday means we go to church. oh, yeah.
oh, yeah. put on a coat and tie.
put on a coat and tie. why?
why? to show respect to god and others.
to show respect to god and others. i'm glad sunday is only once a week.
i'm glad sunday is only once a week. i hope god didn't hear that.
i hope god didn't hear that. he'll forgive me.
did you feed the cat? i'll do that in a minute.
i'll do that in a minute. the cat is meowing. he's hungry.
the cat is meowing. he's hungry. okay. i'll feed him right now.
okay. i'll feed him right now. you shouldn't make him wait.
you shouldn't make him wait. i was doing my homework.
i was doing my homework. the cat doesn't care about your homework.
the cat doesn't care about your homework. the cat doesn't care about anything.
the cat doesn't care about anything. that's the way cats are.
that's the way cats are. all they think about is themselves.

all they think about is themselves. maybe we should get rid of him.

maybe we should get rid of him. of course not! he's family.

i hate shaving. me too.

me too. i just cut myself again.

i just cut myself again. did you use a new blade?

did you use a new blade? it doesn't matter. old blades cut, new blades cut.

it doesn't matter. old blades cut, new blades cut. maybe you should use an electric shaver.

maybe you should use an electric shaver. they make a lot of noise, but they don't give a close shave.

they make a lot of noise, but they don't give a close shave. maybe you should stop shaving.

maybe you should stop shaving. and grow a beard?

and grow a beard? sure. why not?

sure. why not? because food and other stuff sticks in my beard.

because food and other stuff sticks in my beard. hmm. here's an idea. put cream on your face and have the cat lick it off.

excuse me. yes?

yes? are you reading this paper?

are you reading this paper? oh, no. help yourself.

oh, no. help yourself. i asked because the paper is sitting next to you.

i asked because the paper is sitting next to you. thank you. that's polite of you to ask.

thank you. that's polite of you to ask. some people would just pick it up.

some people would just pick it up. yes, i know. some people are rude.

yes, i know. some people are rude. i always try to be polite.

i always try to be polite. so do i.

so do i. the world needs more polite people like us.

the world needs more polite people like us. i agree 100 percent.

mom, i want a puppy. let me think about it.

let me think about it. why do you have to think about it?

why do you have to think about it? because a puppy costs money.

because a puppy costs money. no, it doesn't. puppies are free.

no, it doesn't. puppies are free. yes, but a puppy needs shots.

yes, but a puppy needs shots. shots for what?

shots for what? so it won't get sick. just like you get shots.

so it won't get sick. just like you get shots. i hate shots.

i hate shots. and a puppy eats food. food costs money.

and a puppy eats food. food costs money. no problem. i'll give him food off my plate.

no problem. i'll give him food off my plate. oh, no you don't. puppies don't eat vegetables.

look at all these kittens! how many are there?

how many are there? eight.

eight. they're all so cute.

they're all so cute. yes, but i can't keep them.

yes, but i can't keep them. what are you going to do with them?

what are you going to do with them? i'm going to give them away. do you want one?

i'm going to give them away. do you want one? yes, i would love one.

yes, i would love one. which one do you want?

which one do you want? that one. the one that's all black.

that one. the one that's all black. yes, i like that one, too.

yes, i like that one, too. i'll call him blacky.

my parents go to church every sunday. they trust in god.

they trust in god. they hope they will go to heaven.

they hope they will go to heaven. they probably will.

they probably will. but no one knows for sure.

but no one knows for sure. that's for sure.

that's for sure. no one knows what happens after we die.

no one knows what happens after we die. if we are good, we will be happy in heaven with god.

if we are good, we will be happy in heaven with god. that's what many people believe.

that's what many people believe. if we are bad, we will be unhappy forever in hell.

if we are bad, we will be unhappy forever in hell. i don't want to go to hell.

i don't want to go to hell. let's go to church with your parents on sunday.

my husband died. i'm sorry for you.

i'm sorry for you. thank you.

thank you. when did he die?

when did he die? a couple of months ago.

a couple of months ago. you still miss him.

you still miss him. yes, but i talk to him almost every day.

yes, but i talk to him almost every day. when you go to church?

when you go to church? no, when i call him on his cell phone.

no, when i call him on his cell phone. what do you mean?

what do you mean? i buried him with his cell phone.

i buried him with his cell phone. what will you do when the battery dies?

today is friday the thirteenth. that's a bad day.

that's a bad day. it's supposed to be unlucky.

it's supposed to be unlucky. you're supposed to stay home all day.

you're supposed to stay home all day. that's what i do.

that's what i do. my friend stayed in a hotel on friday the thirteenth.

my friend stayed in a hotel on friday the thirteenth. that was a mistake.

that was a mistake. he stayed on the thirteenth floor.

he stayed on the thirteenth floor. what happened?

what happened? someone stole his laptop.

someone stole his laptop. he was asking for it.

he was asking for it. he learned his lesson. he's home today.

do you really love me? of course.

of course. prove it.

prove it. how can i prove it?

how can i prove it? take me to dinner.

take me to dinner. that's it? that's all i have to do?

that's it? that's all i have to do? take me to a nice restaurant, not to mcdonald's.

take me to a nice restaurant, not to mcdonald's. but a nice restaurant costs money.

but a nice restaurant costs money. yes, and you have to make a reservation.

yes, and you have to make a reservation. that's such a hassle.

that's such a hassle. i knew you didn't love me.

i knew you didn't love me. okay, okay! i'll make a reservation right now.

my parents are divorced. so are mine.

so are mine. why did your parents get divorced?

why did your parents get divorced? my father found a new girlfriend.

my father found a new girlfriend. that's too bad.

that's too bad. my mother was hurt and angry.

my mother was hurt and angry. she had good reason. what did she do?

she had good reason. what did she do? she told him to drop his girlfriend.

she told him to drop his girlfriend. what did your father do?

what did your father do? he moved out of our house.

he moved out of our house. i guess he really liked his new girlfriend.

i guess he really liked his new girlfriend. yes, but she left him a year later.

my grandma's apartment smells funny. so does mine.

so does mine. i think it's an old people's smell.

i think it's an old people's smell. really?

really? yes. i think when you get old, you begin to smell.

yes. i think when you get old, you begin to smell. like fruit that is too ripe?

like fruit that is too ripe? yes, just like fruit that is too ripe.

yes, just like fruit that is too ripe. but the smell is different.

but the smell is different. yes, old people don't smell like fruit.

yes, old people don't smell like fruit. no, they smell like a thrift shop.

no, they smell like a thrift shop. yes, a thrift shop has that same smell.

yes, a thrift shop has that same smell. yes, an old smell.
the price of stamps goes up and up. i think stamps used to cost a penny.
i think stamps used to cost a penny. that was a long time ago.
that was a long time ago. it was before i was born.
it was before i was born. now a stamp is 42 cents.
now a stamp is 42 cents. but in may it will be 44 cents.
but in may it will be 44 cents. have you ever lost a letter in the mail?
have you ever lost a letter in the mail? no, i haven't.
no, i haven't. neither have i.
neither have i. so, they do a good job for the money.
so, they do a good job for the money. yes, they do.
yes, they do. maybe we shouldn't complain.
a button came off my shirt. what are you going to do?
what are you going to do? first, i have to find the button.
first, i have to find the button. where did you lose it?
where did you lose it? i have no idea.
i have no idea. a button is hard to find. did you look in your pant cuffs?
a button is hard to find. did you look in your pant cuffs? that's a good idea.
that's a good idea. i found a button in my pant cuffs one time.
i found a button in my pant cuffs one time. let me look. no, it's not there.
let me look. no, it's not there. many shirts come with an extra button.
many shirts come with an extra button. you're right. this one does have an extra button.
you're right. this one does have an extra button. now all you have to do is sew it on.
i have to go to the bathroom. you drink too much coffee.
you drink too much coffee. but i love coffee.
but i love coffee. well, it's your life.
well, it's your life. you eat too much chocolate.
you eat too much chocolate. i don't think so.
i don't think so. have you looked in the mirror?

have you looked in the mirror? do you think i'm getting fat?

do you think i'm getting fat? i didn't say that.

i didn't say that. what did you say?

what did you say? i said i have to go to the bathroom.

i said i have to go to the bathroom. that's what i thought you said.

did you do the laundry? yes, i did.

yes, i did. what did you wash?

what did you wash? i washed the sheets and towels.

i washed the sheets and towels. what about the pillowcases?

what about the pillowcases? yes, i took them off the pillows and washed them.

yes, i took them off the pillows and washed them. did you dry everything in the dryer?

did you dry everything in the dryer? yes, i dried everything in the dryer.

yes, i dried everything in the dryer. then what did you do?

then what did you do? i folded all the towels.

i folded all the towels. did you put the sheets on the beds?

did you put the sheets on the beds? yes, and i put the pillowcases on the pillows.

do you listen to the radio? i listen day and night.

i listen day and night. what do you listen to?

what do you listen to? mostly talk radio.

mostly talk radio. what's that?

what's that? people talk about current events.

people talk about current events. what do they say?

what do they say? they say they want change.

they say they want change. what kind of change?

what kind of change? they want tax cuts.

they want tax cuts. why do they want tax cuts?

why do they want tax cuts? because tax cuts will save them money.

mom, i'm hungry. look in the fridge.

look in the fridge. i'm looking. there's nothing to eat.

i'm looking. there's nothing to eat. are you sure?

are you sure? it's almost empty.

it's almost empty. i went to the market yesterday.

i went to the market yesterday. i don't see anything.

i don't see anything. i bought lots of oranges and apples.

i bought lots of oranges and apples. i don't want fruit. i want something tasty.

i don't want fruit. i want something tasty. eat the fruit. it's good for you.

eat the fruit. it's good for you. next time you go to the market, let me go with you.

next time you go to the market, let me go with you. no, thank you. all you want to eat are hot dogs and candy bars.

what is there to eat? i don't know. look in the fridge.

i don't know. look in the fridge. i think i'll make a sandwich.

i think i'll make a sandwich. what kind?

what kind? a ham sandwich.

a ham sandwich. the bread is in the cabinet.

the bread is in the cabinet. where's the mustard?

where's the mustard? it's in the fridge, i think.

it's in the fridge, i think. oh, yes, here it is. do you want a sandwich?

oh, yes, here it is. do you want a sandwich? yes, that sounds nice.

yes, that sounds nice. how about some potato chips?

how about some potato chips? yes. and a pickle, if we have any.

it's time for your bath, young lady. but, mom, i'm not dirty.

but, mom, i'm not dirty. you need a bath every day.

you need a bath every day. why?

why? because you don't want to smell bad.

because you don't want to smell bad. i don't smell bad.

i don't smell bad. that's what you think.

that's what you think. if i smelled bad, i could smell me.

if i smelled bad, i could smell me. i can smell you.

i can smell you. i can smell you, too.

i can smell you, too. that's my perfume.

that's my perfume. when can i wear perfume?

something's wrong with my computer. exactly what?

exactly what? all i get is a black screen.

all i get is a black screen. what's the matter?

what's the matter? i think i know, because this happened before.

i think i know, because this happened before. what happened before?

what happened before? my hard drive crashed.

my hard drive crashed. oh, no. that's bad news.

oh, no. that's bad news. it sure is, but i'm going to call hp first, just to make sure.

it sure is, but i'm going to call hp first, just to make sure. will you lose all your files?

will you lose all your files? no, i always back up my files.

no, i always back up my files. you're smart.

i called hp about my computer. what did they say?

what did they say? they said i need a new hard drive.

they said i need a new hard drive. that's too bad. how much is a new one?

that's too bad. how much is a new one? it's not too much, only about \$85.

it's not too much, only about \$85. plus installation?

plus installation? no, my hard drive is easy to remove and replace.

no, my hard drive is easy to remove and replace. really?

really? yes, it's just a couple of screws.

yes, it's just a couple of screws. that's nice.

that's nice. it's a lot better than paying someone \$60.

it's a lot better than paying someone \$60. if my hard drive crashes, i'll just call you.

what's your email address? it's bluedog123.

it's bluedog123. bluedog123. are you sure that's all?

bluedog123. are you sure that's all? yes.

yes. no. that's incomplete.

no. that's incomplete. what do you mean?

what do you mean? what's your mailing address?

what's your mailing address? 456 cherry drive, pasadena, ca 91170.

456 cherry drive, pasadena, ca 91170. that's correct.

that's correct. so what's the problem?

so what's the problem? bluedog123 is just the street. you have to give me the city, state, and zip code.

bluedog123 is just the street. you have to give me the city, state, and zip code. oh, i get it. my email address is bluedog123@yahoo.com.

i'm going to take a nap. you should unplug the phone.

you should unplug the phone. that's a good idea.

that's a good idea. do you want me to wake you in an hour?

do you want me to wake you in an hour? no, thanks. just let me sleep until i wake up.

no, thanks. just let me sleep until i wake up. i'll start dinner at 6:00.

i'll start dinner at 6:00. okay. i think i'll be awake by then.

okay. i think i'll be awake by then. if not, your nose will wake you up.

if not, your nose will wake you up. you mean i will smell the food cooking?

you mean i will smell the food cooking? you might even dream about dinner.

you might even dream about dinner. i don't think i'm going to dream about anything. i'm really tired.

i don't think i'm going to dream about anything. i'm really tired. have a nice nap.

that was a nice funeral. yes, dad, it was.

yes, dad, it was. the son gave a nice speech about his father.

the son gave a nice speech about his father. it was long, too.

it was long, too. i think it was about 45 minutes long.

i think it was about 45 minutes long. but it went by fast. it was interesting.

but it went by fast. it was interesting. i liked it.

i liked it. i'll give you a speech like that, too.

i'll give you a speech like that, too. do you think anyone will come to my funeral?

do you think anyone will come to my funeral? of course.

of course. i think only the family will be there.

i think only the family will be there. you have lots of friends. they will be there, too!

yikes! what was that noise? i had to blow my nose.

i had to blow my nose. did you have to blow right next to the phone?

did you have to blow right next to the phone? did you hear that?

did you hear that? of course i heard that. i thought a plane had crashed into your house.

of course i heard that. i thought a plane had crashed into your house. it wasn't that loud.

it wasn't that loud. i will blow my nose sometime for you, and you'll see.

i will blow my nose sometime for you, and you'll see. okay. i'll take your word for it.

okay. i'll take your word for it. i thought you had an elephant in your house.

i thought you had an elephant in your house. you're funny.

you're funny. what did you say? i think i've gone deaf.

what did you say? i think i've gone deaf. i'm going into the bathroom to blow my nose. i'll be right back.

i have lots of friends. really? how many do you have?

really? how many do you have? i don't know, maybe one hundred.

i don't know, maybe one hundred. that is a lot of friends. do you have a best friend?

that is a lot of friends. do you have a best friend? of course. i have lots of best friends.

of course. i have lots of best friends. how many best friends do you have?

how many best friends do you have? i think about twenty-five.

i think about twenty-five. hmm. i have only one best friend.

hmm. i have only one best friend. i feel sorry for you.

i feel sorry for you. i have only a few friends.

i have only a few friends. you must be lonely. i will share my friends with you.

you must be lonely. i will share my friends with you. that's very nice of you.

don't you ever cheat on me. why would i do that?

why would i do that? because men like to cheat.

because men like to cheat. some men do, but not me.

some men do, but not me. i'm watching you.

i'm watching you. i'm an open book. watch me all you want.

i'm an open book. watch me all you want. if i catch you, you'll be sorry.

if i catch you, you'll be sorry. you won't catch me, because i love you. i'm not a cheater.

you won't catch me, because i love you. i'm not a cheater. i will poke your eyes out.

i will poke your eyes out. i don't want any other woman.

i don't want any other woman. i will chop your toes off, one by one.

i will chop your toes off, one by one. honey, please. you're the only woman for me, forever. i swear it.

i hate to go outside. me too.

me too. why do you hate to go outside?

why do you hate to go outside? i meet too many jerks.

i meet too many jerks. i agree.

i agree. this city is full of jerks.

this city is full of jerks. rude people are everywhere.

rude people are everywhere. but what can you do?

but what can you do? you can yell at them.

you can yell at them. and they will yell back at you.

and they will yell back at you. yelling doesn't do any good.

yelling doesn't do any good. no. the best thing to do is just stay home.

will you look at this form? are you having problems with it?

are you having problems with it? i don't understand some things.

i don't understand some things. let me help you.

let me help you. what does "mi" mean?

what does "mi" mean? "mi" stands for middle initial.

"mi" stands for middle initial. what does "mm/dd/yy" mean?

what does "mm/dd/yy" mean? that means month/day/year. use numbers.

that means month/day/year. use numbers. i don't understand.

i don't understand. for example, if your birth date is january 12, 1987, write 01/12/87.

for example, if your birth date is january 12, 1987, write 01/12/87. oh. that's simple enough.

oh. that's simple enough. always print clearly, and fill in the bubbles completely.

let's go to the animal shelter. what do you want to do?

what do you want to do? i want to get a puppy for my son.

i want to get a puppy for my son. that will make him so happy.

that will make him so happy. i'll get him one of those little dogs.

i'll get him one of those little dogs. one that won't grow up too big.

one that won't grow up too big. and eat too much.

and eat too much. do you know which one he would like?

do you know which one he would like? oh, yes, i took him there yesterday. he showed me one that he really liked.

oh, yes, i took him there yesterday. he showed me one that he really liked. i bet you had to drag him away.

i bet you had to drag him away. he wanted to take it home yesterday.

he wanted to take it home yesterday. i wonder what he'll name it.

what's the weather like? i don't know. i just woke up.

i don't know. i just woke up. why don't you look outside?

why don't you look outside? okay. it looks like rain.

okay. it looks like rain. why do you say that?

why do you say that? the sky is gray.

the sky is gray. is it raining right now?

is it raining right now? no.

no. how do you know?

how do you know? the street isn't wet.

the street isn't wet. i have to go shopping today.

i have to go shopping today. you'd better take an umbrella.

i can't believe how hot it is. it's not even noon yet.

it's not even noon yet. that means it will get hotter.
that means it will get hotter. i am dying from the heat.
i am dying from the heat. turn on the air conditioner.
turn on the air conditioner. it doesn't work.
it doesn't work. what happened?
what happened? i don't know.
i don't know. did you call the repairman?
did you call the repairman? of course.
of course. when is he coming?
when is he coming? he's busy. he said next week.
i'll be glad when winter comes. why is that?
why is that? because i love the snow.
because i love the snow. yes, the snow is fun.
yes, the snow is fun. last year we made a big snowman.
last year we made a big snowman. how big was it?
how big was it? it was seven feet tall.
it was seven feet tall. how long did it take?
how long did it take? it took us all day.
it took us all day. did you give him a nose?
did you give him a nose? of course. we gave him a big carrot for a nose.
of course. we gave him a big carrot for a nose. let me help you make one this year.
i'm going to the bank. what do you need to do?
what do you need to do? i need to withdraw some money.
i need to withdraw some money. how are you going to do that?
how are you going to do that? i'll just use the atm.
i'll just use the atm. what's that?
what's that? it's the automatic teller machine.
it's the automatic teller machine. it gives you money?
it gives you money? i just insert my debit card into the machine.

i just insert my debit card into the machine. and it gives you money?

and it gives you money? well, it gives me money, but it's my own money.

well, it gives me money, but it's my own money. oh. what good is that? i thought it gave you free money.

did you put the blue bin out on the street? oh, no. i forgot.

oh, no. i forgot. well, you'd better take it out front.

well, you'd better take it out front. what time does the recycle truck come by?

what time does the recycle truck come by? it usually gets here at noon on tuesday, which is tomorrow.

it usually gets here at noon on tuesday, which is tomorrow. i'll just take it out to the street tomorrow morning.

i'll just take it out to the street tomorrow morning. oh, no, you don't.

oh, no, you don't. what do you mean?

what do you mean? every morning you get up late and rush off to work late.

every morning you get up late and rush off to work late. do you think i'll forget to do it?

do you think i'll forget to do it? you'll remember to do it, but you won't have time to do it.

you'll remember to do it, but you won't have time to do it. okay, i'll take it out front right now.

are you ready? ready for what?

ready for what? ready for the big switch.

ready for the big switch. what are you talking about?

what are you talking about? the nation is switching to digital tv.

the nation is switching to digital tv. oh. of course i'm ready.

oh. of course i'm ready. did you buy the converter?

did you buy the converter? no, i don't need a converter because i bought a digital tv.

no, i don't need a converter because i bought a digital tv. how much was that?

how much was that? it was only about \$120 for a 13-inch screen.

it was only about \$120 for a 13-inch screen. does it pick up any digital channels?

does it pick up any digital channels? oh, yes. i get six korean channels but nothing in english!

people are funny. they sure are.

they sure are. did you hear about the pilot?

did you hear about the pilot? the one that stole a small plane?

the one that stole a small plane? yes, he stole a plane in canada and flew into the u.s.

yes, he stole a plane in canada and flew into the u.s. did they catch him?

did they catch him? yes. after two u.s. fighter jets followed him for an hour, he landed on a highway.

yes. after two u.s. fighter jets followed him for an hour, he landed on a highway. did he crash?

did he crash? no, he just landed the plane and walked to a restaurant.

no, he just landed the plane and walked to a restaurant. did the cops find out why he flew into the u.s.?

did the cops find out why he flew into the u.s.? his life sucked. he was hoping a fighter jet would shoot him down.

his life sucked. he was hoping a fighter jet would shoot him down. poor guy.

the police need our help finding a robber. how do you know?

how do you know? the tv news is reporting a bank robbery.

the tv news is reporting a bank robbery. do they know what the robber looks like?

do they know what the robber looks like? yes, he's 6 feet tall, 200 pounds, black hair, and about 30 years old.

yes, he's 6 feet tall, 200 pounds, black hair, and about 30 years old. what race is he?

what race is he? they didn't say.

they didn't say. the tv news doesn't tell us the race anymore.

the tv news doesn't tell us the race anymore. of course not. that would be racist.

of course not. that would be racist. but how can we identify someone if we don't know their race?

but how can we identify someone if we don't know their race? don't ask me.

don't ask me. then they also shouldn't tell us if the robber is male or female, because that is sexist.

don't wipe your nose on your sleeve. but i don't have a tissue.

but i don't have a tissue. then go find a tissue in the bathroom.

then go find a tissue in the bathroom. i didn't have time to get one from there.

i didn't have time to get one from there. your sleeves are not tissues.

your sleeves are not tissues. but mom, all my friends use their sleeves.

but mom, all my friends use their sleeves. that doesn't make it right.

that doesn't make it right. i saw dad wipe his nose on his sleeve yesterday.

i saw dad wipe his nose on his sleeve yesterday. i will talk to your father about that.

i will talk to your father about that. i bet dad did it all the time when he was my age.

i bet dad did it all the time when he was my age. your daddy was a good little boy.

your daddy was a good little boy. how do you know? were you his mommy, too?

i'm worried. worried about what?

worried about what? i'm getting married.

i'm getting married. you should be happy, not worried.

you should be happy, not worried. i am happy, but marriage is a lot of responsibility.

i am happy, but marriage is a lot of responsibility. yes, you have to take care of your wife.

yes, you have to take care of your wife. and i have to take care of our children.

and i have to take care of our children. are you going to start a family?

are you going to start a family? yes. we want to have a little boy and a little girl.

yes. we want to have a little boy and a little girl. that sounds wonderful.

that sounds wonderful. except we can't afford it!

except we can't afford it! no wonder you're worried.

i don't get art. or artists.

or artists. they're in a different world.

they're in a different world. i saw a painting of a jar that was full of pencils.

i saw a painting of a jar that was full of pencils. the artist said the jar was both full and empty.

the artist said the jar was both full and empty. but it was full of pencils! how could he say it was empty?

but it was full of pencils! how could he say it was empty? artists see things differently.

artists see things differently. did you ever see anything that picasso painted?

did you ever see anything that picasso painted? of course! he's world famous.

of course! he's world famous. did he ever take art lessons?

did he ever take art lessons? i can't believe it. i drew paintings like that in third grade.

i can't believe it. i drew paintings like that in third grade. where are they? maybe they are worth millions.

what's the point? the point of what?

the point of what? of living.

of living. who knows? you live, and then you die.

who knows? you live, and then you die. we must be here for some reason.

we must be here for some reason. maybe we're here to have fun.

maybe we're here to have fun. then why aren't i having fun?

then why aren't i having fun? because you're thinking too much.

because you're thinking too much. so i should stop thinking?

so i should stop thinking? stop thinking about what the point is.

stop thinking about what the point is. okay. i'll start thinking about having some fun.

okay. i'll start thinking about having some fun. just be patient. fun doesn't come along every five minutes.

beer is a powerful drug. so are cigarettes.

so are cigarettes. which would you prefer?

which would you prefer? what do you mean?

what do you mean? when you die and go to heaven, they will offer you beer or cigarettes.

when you die and go to heaven, they will offer you beer or cigarettes. i could pick only one or the other?

i could pick only one or the other? yes. nothing's perfect, not even in heaven.

yes. nothing's perfect, not even in heaven. boy, that's a tough one.

boy, that's a tough one. what's so tough about it? of course, i would pick cigarettes.

what's so tough about it? of course, i would pick cigarettes. but cigarettes taste much better when you have a cold beer.

but cigarettes taste much better when you have a cold beer. well, you can't have everything.

well, you can't have everything. i don't think i want to go to your heaven.

my pants have a hole in the front pocket. you shouldn't carry pens in your pocket.

you shouldn't carry pens in your pocket. yesterday a pen fell through my pants onto my shoe.

yesterday a pen fell through my pants onto my shoe. lucky for you it wasn't a sharp knife.

lucky for you it wasn't a sharp knife. who carries a sharp knife in their pocket?

who carries a sharp knife in their pocket? criminals, of course.

criminals, of course. anyway, i have to fix the hole.

anyway, i have to fix the hole. you can sew it up or use an iron-on patch.

you can sew it up or use an iron-on patch. tell me about this patch.

tell me about this patch. the patch has glue. the hot iron melts the glue so the patch sticks on.

the patch has glue. the hot iron melts the glue so the patch sticks on. that sounds a lot easier than sewing.

that sounds a lot easier than sewing. it is. but after about ten washings, the glue washes off.

do you know any good jokes? i can't remember jokes.

i can't remember jokes. neither can i.

neither can i. they go in one ear and out the other.

they go in one ear and out the other. who makes up all these jokes?

who makes up all these jokes? who knows? but there must be a hundred new ones every day.

who knows? but there must be a hundred new ones every day. yes, just in english alone.

yes, just in english alone. i wonder if every language has jokes.

i wonder if every language has jokes. of course! people everywhere like good jokes.

of course! people everywhere like good jokes. what do you think people joke about the most?

what do you think people joke about the most? i think most jokes are about women.

i think most jokes are about women. oh, really? i think most jokes are about men!

you're very lucky. why do you say that?

why do you say that? you speak two languages.

you speak two languages. well, my english isn't perfect.

well, my english isn't perfect. no one speaks perfect english.

no one speaks perfect english. maybe i will be the first!

maybe i will be the first! i've been thinking about learning spanish.

i've been thinking about learning spanish. spanish is easy. i'll be happy to teach you.

spanish is easy. i'll be happy to teach you. how long will it take me to learn?

how long will it take me to learn? i think it will only take you a year or two.

i think it will only take you a year or two. how soon can we begin?

how soon can we begin? ahora! that means right now.

do you know what today is? yes, it's april 22.

yes, it's april 22. it's more than just a date.

it's more than just a date. is it your birthday or anniversary?

is it your birthday or anniversary? no, it's earth day.

no, it's earth day. what's that?

what's that? it's a yearly reminder to take care of our planet.

it's a yearly reminder to take care of our planet. oh, you mean like reuse things and recycle stuff?

oh, you mean like reuse things and recycle stuff? yes. we need to think green, save water, and stop using plastic bags.

yes. we need to think green, save water, and stop using plastic bags. how about if i take shorter showers?

how about if i take shorter showers? that's a good idea, because showers waste a lot of water.

that's a good idea, because showers waste a lot of water. from now on i'll spend only 20 minutes in the shower.

poetry sucks. i don't know anyone who likes it.

i don't know anyone who likes it. some of it is okay, i guess.

some of it is okay, i guess. yes, the poems that rhyme and are easy to remember.

yes, the poems that rhyme and are easy to remember. like "one, two, buckle my shoe."

like "one, two, buckle my shoe." but people still write poems.

but people still write poems. no one makes any money at it.

no one makes any money at it. shakespeare was a poet.

shakespeare was a poet. did he get rich from his poetry?

did he get rich from his poetry? probably not.

probably not. poems are a little bit like songs.

poems are a little bit like songs. yes, but songs have music. without music, songs would suck, too.

how smart are you? i don't know. i think i'm average.

i don't know. i think i'm average. did you ever take an iq test?

did you ever take an iq test? no, i never did. all i know is that i got a's and b's in school.

no, i never did. all i know is that i got a's and b's in school. i wish i was really smart.

i wish i was really smart. don't be ridiculous.

don't be ridiculous. what do you mean?

what do you mean? if you're going to make a wish, wish that you were really rich or famous.

if you're going to make a wish, wish that you were really rich or famous. don't you ever wonder what it's like to be super-smart?

don't you ever wonder what it's like to be super-smart? it must be very lonely.

it must be very lonely. why's that?

why's that? because if you're super-smart, no one understands what you're saying.

i missed the tv news last night. what was on? nothing that would pass as news.

nothing that would pass as news. what's the weather going to be like this weekend?

what's the weather going to be like this weekend? i don't know. whenever the weather comes on, i switch channels.

i don't know. whenever the weather comes on, i switch channels. what was the lead story on the news?

what was the lead story on the news? some actress was in court for driving without a license.

some actress was in court for driving without a license. what was the second story?

what was the second story? some actor married a woman young enough to be his daughter.

some actor married a woman young enough to be his daughter. what was the third story?

what was the third story? a bull chased a man in a supermarket.

a bull chased a man in a supermarket. wasn't there anything about octo-mom?

wasn't there anything about octo-mom? of course. she's going to hire a nanny for her eight infants.

what are you going to do about your death? well, mostly i'll try to avoid it.

well, mostly i'll try to avoid it. i mean, are you going to get buried or cremated?

i mean, are you going to get buried or cremated? my wife and i will be cremated.

my wife and i will be cremated. are you going to be buried next to each other?

are you going to be buried next to each other? oh, no. our ashes will be shaken into the ocean.

oh, no. our ashes will be shaken into the ocean. you're not going to be buried?

you're not going to be buried? a coffin costs too much and takes up too much space.

a coffin costs too much and takes up too much space. yes, but it will be in a cemetery where your children can visit you.

yes, but it will be in a cemetery where your children can visit you. children seldom visit their parents in a cemetery.

children seldom visit their parents in a cemetery. that's true. a cemetery is for dead people, not living people.

that's true. a cemetery is for dead people, not living people. we figure our kids can visit us whenever they go to the beach.

did you wipe your feet? yes, of course i wiped my feet.

yes, of course i wiped my feet. then why is there mud on the carpet?

then why is there mud on the carpet? i don't know. it's not my mud.

i don't know. it's not my mud. well, someone brought it into the house.

well, someone brought it into the house. look at the bottom of my shoes—they're clean.

look at the bottom of my shoes—they're clean. of course they're clean. you left all the mud on the carpet.

of course they're clean. you left all the mud on the carpet. okay, i'll get the vacuum cleaner.

okay, i'll get the vacuum cleaner. don't vacuum it now.

don't vacuum it now. don't you want me to clean up the mud?

don't you want me to clean up the mud? wait till it dries. it will be easier to vacuum.

wait till it dries. it will be easier to vacuum. next time i will be more careful.

what are you getting for your mom? what are you talking about?

what are you talking about? sunday is mother's day.

sunday is mother's day. this sunday?

this sunday? of course. it's all over the news.

of course. it's all over the news. i thought it was next sunday.

i thought it was next sunday. well, you'd better get her something.

well, you'd better get her something. i'll get her a nice card.

i'll get her a nice card. is that it?

is that it? yes. that's all i ever give her.

yes. that's all i ever give her. she raised you, and all you ever give her is a card?

she raised you, and all you ever give her is a card? it's okay. she knows that i love her.

i don't like our flag. what's the matter with it?

what's the matter with it? it's too much like other flags.

it's too much like other flags. yes, a lot of flags have stripes.

yes, a lot of flags have stripes. a flag should be pretty.

a flag should be pretty. what should our flag look like?

what should our flag look like? it should have a pretty woman on it.

it should have a pretty woman on it. that's ridiculous!

that's ridiculous! you don't like pretty women?

you don't like pretty women? of course i do. but not on our flag!

of course i do. but not on our flag! every nation should have a pretty woman on their flag.

every nation should have a pretty woman on their flag. you can't go to war carrying a flag with a woman on it!

i had a busy morning. what did you do?

what did you do? i watered all the plants.

i watered all the plants. you have a lot of plants.

you have a lot of plants. then i did my laundry.

then i did my laundry. that takes some time.

that takes some time. i took the dog for a walk.

i took the dog for a walk. i'll bet he enjoyed his walk.

i'll bet he enjoyed his walk. i vacuumed the entire house.

i vacuumed the entire house. that's a lot of work.

that's a lot of work. and then i made lunch.

and then i made lunch. i'll bet you were hungry!

i don't have long distance service with my home phone. so how do you make long distance calls?

so how do you make long distance calls? i use a calling card.

i use a calling card. where do you get that?

where do you get that? i buy it at the dollar store.

i buy it at the dollar store. how much is it?

how much is it? it's one dollar for 100 minutes.

it's one dollar for 100 minutes. that's only a penny a minute!

that's only a penny a minute! it's a great price. but you have to dial a lot of numbers.

it's a great price. but you have to dial a lot of numbers. how many?

how many? first you dial seven numbers, then ten numbers, then ten more numbers.

first you dial seven numbers, then ten numbers, then ten more numbers. yikes. i think i'll keep my long distance service.

do you go to college? yes, i do.

yes, i do. what college do you go to?

what college do you go to? i go to pasadena city college.

i go to pasadena city college. do you like it?

do you like it

3. Setting Up Our Tools

Python Installation: We've installed Python 3.x, the programming language that powers our project. We're all set for action.

Library Preparation: Our toolbox now includes Flask, the library for building web applications, and ChatterBot, the engine that gives life to our chatbot. With these essential libraries in place, we're well-prepared for the next phase.

4. Equipped Development Environment

Our work environment is geared up with the right tools:

Text Editor or IDE: We've chosen our trusted text editor or integrated development environment (IDE) to craft our code. Our workspace is all set for creativity.

Command-Line Proficiency: We're comfortable with using the command-line interface (CLI) for managing our Flask application. It's like our compass in this journey.

With these checkpoints behind us, we're ready to embark on the next leg of our project. Each of these prerequisites is like a stepping stone, bringing us closer to our goal of creating a web-based chatbot. We've come a long way, and there's still more to explore.

Setting Up Flask

Flask is a micro web framework for Python that's perfect for building web applications, including integrating our chatbot. In this section, we'll guide you through the process of setting up Flask, which includes installing it and organizing your project structure.

3.1. Flask Installation

Before you can start building your web application with Flask, you need to install it. Here's how:

Open a Terminal/Command Prompt: On your computer, open a terminal or command prompt.

Install Flask: Use pip, the Python package manager, to install Flask. Simply run the following command:

```
pip install Flask
```

This will download and install Flask on your system.

Verify Installation: To ensure Flask is properly installed, you can check the version by running:

```
flask --version
```

If successful, you'll see the version number displayed.

3.2. Project Structure

A well-organized project structure makes development more manageable. Here's a recommended structure for your Flask project:

```
project_folder/  
|  
├─ app/  
|   └─ static/  
|       └─ (Your CSS and JavaScript files)  
|   └─ templates/  
|       └─ (Your HTML templates)  
|   └─ __init__.py  
|  
├─ chatbot.py  
|  
└─ main.py
```

|

Let's break down the structure:

`project_folder/`: This is your project's root directory.

`app/`: This is your Flask application directory. It contains the core components of your web app.

`static/`: This directory is used for storing static files such as CSS and JavaScript. These files define the appearance and behavior of your web pages.

`templates/`: This directory is for your HTML templates. HTML templates define the structure and layout of your web pages.

`__init__.py`: This file makes the `app/` directory a Python package, allowing you to import and use its components.

`chatbot.py`: This file contains your chatbot logic. You'll use this logic to generate responses to user queries.

`main.py`: This is the entry point for your Flask application. It contains the Flask application setup, routes, and interaction with your chatbot.

With Flask installed and your project structure organized, you're now ready to start building your web-based chatbot application.

Chatbot Logic and Dataset

Before we dive into the integration of our chatbot with Flask, let's take a moment to explore the core components that power our chatbot's intelligence.

4.1. Chatbot Logic

Our chatbot is built upon the foundation of the ChatterBot library, which provides us with a robust framework for creating conversational agents. Here's a brief overview of our chatbot's logic:

Library Choice: We've chosen the ChatterBot library for its simplicity and effectiveness in creating chatbots. ChatterBot allows us to develop a chatbot capable of understanding and responding to user queries in a conversational manner.

Training: Our chatbot is trained using a combination of methods:

Custom Conversation Training: We've trained our chatbot with a set of custom conversations that pertain to our chatbot's domain. These conversations help our chatbot respond to domain-specific queries.

Corpus Data Training: In addition to custom training, we've leveraged the ChatterBotCorpusTrainer to expose our chatbot to a broader range of conversational data. This enriches our chatbot's general knowledge and makes it more versatile.

4.2. Dataset for Training

A key element of our chatbot's development is the training dataset. Here's how we've integrated it into our chatbot's training process:

Dataset Content: Our training dataset consists of a curated collection of questions and answers. These questions are specific to our chatbot's domain, and the answers help our chatbot understand and respond effectively.

Training Process: During the training process, our chatbot utilizes this dataset to learn how to respond to user queries. It identifies patterns in the questions and their corresponding answers, which helps it generate appropriate responses.

Significance: The dataset plays a pivotal role in making our chatbot more informative and responsive. It ensures that our chatbot can handle a wide range of user queries and provide accurate responses.

With a well-trained chatbot and a dataset tailored to its domain, we're now ready to integrate our chatbot into a web application using Flask.

5. Flask Application Setup

Now that we've delved into our chatbot's capabilities and the dataset that powers it, let's move on to the practical aspects of setting up a Flask application to bring our chatbot to life.

5.1. Flask Application Creation

Flask is a micro web framework for Python, making it a great choice for our web-based chatbot application. Here's how to set up our Flask application:

Import Flask: In our Python code, we import the Flask library to create our web application.

Define Routes: We define routes that determine how our application responds to different URLs. These routes handle user requests and generate appropriate responses.

Here's an overview of the key components:

main.py: This is the entry point for our Flask application. It contains the setup for our Flask app and defines the routes for user interactions with the chatbot.

/: The root route is the landing page of our web app. It's where users can interact with our chatbot.

/ask: This route is responsible for handling user messages. When a user submits a message, our Flask application sends it to our chatbot for processing and returns the bot's response.

We're now set to create a responsive and interactive web interface for our chatbot using Flask, allowing users to engage with it in real time.

5.2. Code Examples

Here are some code snippets to illustrate how we set up our Flask application:

Example 1: Import Flask and Create the Flask App

python

Copy code

```
from flask import Flask, render_template, request
```

```
app = Flask(__name)
```

Example 2: Define the Root Route

python

Copy code

```
@app.route('/')  
  
def home():  
    return render_template('index.html')
```

Example 3: Define the '/ask' Route for User Interactions

python

Copy code

```
@app.route('/ask', methods=['POST'])  
  
def ask():  
    user_message = request.form['user_message']  
  
    # Process user_message and get the chatbot's response  
  
    bot_response = "This is a placeholder response"  
  
    return bot_response
```

Our Flask application, combined with the power of our trained chatbot, is poised to create an engaging and dynamic user experience.

With the chatbot logic, dataset, and Flask application setup in place, we're ready to proceed to the next steps of building our web-based chatbot application.

Chatbot Integration

Now that we've laid the groundwork for our chatbot logic and Flask application, it's time to bring these components together. In this section, we'll explore how we integrate our chatbot into the Flask web application, allowing it to generate responses to user queries in real time.

6.1. Integrating Chatbot Logic with Flask

We've established a seamless integration between our chatbot and the Flask application. Here's how it works:

Chatbot Instance: We create an instance of the ChatBot class from the ChatterBot library. This instance serves as the foundation of our chatbot's functionality.

User Interactions: When a user interacts with our web application and sends a message, our Flask route (/ask) handles the user input.

Generating Responses: Within our Flask route, we utilize the chatbot instance to process the user's message and generate a response. This response is then sent back to the user.

Real-Time Interaction: Our web application ensures a real-time interaction between the user and the chatbot. As users input their queries, they receive immediate responses, creating a conversational experience.

6.2. Code Samples

Here are code samples to demonstrate the integration of our chatbot with Flask:

Example 1: Initializing the Chatbot Instance

python

Copy code

```
from chatterbot import ChatBot
```

```
# Create a ChatBot instance
```

```
CB = ChatBot('ChatBot')
```

Example 2: Handling User Messages and Generating Bot Responses

python

Copy code

```
@app.route('/ask', methods=['POST'])
```

```
def ask():
```

```
    user_message = request.form['user_message']
```

```
    # Use the chatbot to generate a response
```

```
bot_response = CB.get_response(user_message)

return jsonify({'response': str(bot_response)})
```

Our Flask route /ask handles user messages, passes them to the chatbot instance (CB), and returns the chatbot's response, creating a dynamic and responsive interaction.

7. HTML Templates

The user interface of our web application is a crucial aspect of the chatbot integration. HTML templates define the structure and layout of our chat interface, making it user-friendly and visually appealing.

7.1. Creation of HTML Templates

We've designed HTML templates to provide an interactive and intuitive interface for users. These templates include:

User Input Field: An input field where users can type their messages to the chatbot.

Chat Display: A chat display area that showcases the conversation between the user and the chatbot.

7.2. Code Example: HTML Template

Here's an example of an HTML template for our chat interface:

html

Copy code

```
<!DOCTYPE html>

<html>

<head>

  <title>Chatbot Interface</title>

</head>

<body>

  <div class="chat-container">

    <div class="chat-display">
```

```

        <!-- Chat messages go here -->
    </div>

    <div class="user-input">
        <input type="text" id="user-message" placeholder="Type your message...">
        <button id="send-button">Send</button>
    </div>
</div>

<script src="app.js"></script>
</body>
</html>

```

Our HTML template is the visual backbone of our chat interface, providing a platform for users to interact with the chatbot.

8. Real-time Interaction with AJAX

A critical aspect of our chat interface is real-time interaction. To achieve this, we employ AJAX, a technique that enables asynchronous communication between the web browser and the server. This ensures that users receive instant responses as they engage with the chatbot.

8.1. Using AJAX for Real-time Interaction

With AJAX, user messages are sent to the server without requiring a full page refresh. This is how real-time interaction is achieved. When a user types a message and clicks "Send," AJAX handles the message's delivery to the server and the return of the chatbot's response.

8.2. JavaScript Code Snippets

Here's a simplified example of JavaScript code demonstrating how AJAX is used to interact with our Flask routes:

javascript

Copy code

```

document.getElementById('send-button').addEventListener('click', function() {
    var userMessage = document.getElementById('user-message').value;

```

```
// Make an AJAX request to the Flask route '/ask'  
  
// Send the user's message and update the chat display with the bot's response  
  
// (JavaScript code in 'app.js' file)  
  
});
```

AJAX makes it possible for users to communicate with our chatbot in real time, enhancing the conversational experience.

With the integration of our chatbot into our Flask application, the creation of HTML templates, and the utilization of AJAX for real-time interaction, we've built the foundation for a responsive and interactive chat interface. In the next sections, we'll explore styling, testing, and deployment to take our project to completion.

10. Styling

Enhancing the Visual Appeal

To create an engaging and visually appealing chatbot interface, we focused on several key design aspects:

Color Scheme: We carefully selected a color palette that aligned with the overall theme of our web application. The chosen colors are not only aesthetically pleasing but also provide excellent contrast between the user's messages and the bot's responses. This ensures that users can easily distinguish between the two.

Typography: We considered typography choices, opting for a clear and readable font that would enhance the user experience. The font size was adjusted to ensure text was easily readable on various screen sizes.

Layout: The layout of the chat interface was designed to be user-friendly. It includes a clear and prominent user input field, and the chat history is organized in a neat and intuitive format.

Chat Bubbles: To differentiate between user messages and bot responses, we used chat bubbles with background colors, borders, and padding. This visual separation enhances the conversational flow and clarity.

Transitions and Animations: Subtle transitions and animations were incorporated to create a smoother user experience. For instance, when a new message is sent, it smoothly appears in the chat, providing an engaging and polished feel to the conversation.

Responsive Design: We ensured that the chat interface is responsive, adapting seamlessly to different screen sizes, including mobile devices. This guarantees a consistent and user-friendly experience for all users.

Using CSS Frameworks

In some cases, we utilized CSS frameworks like Bootstrap to streamline the styling process. Bootstrap provided a collection of pre-designed components and styles that we easily integrated into our project. By including Bootstrap in our HTML templates, we saved time and achieved a polished, responsive, and consistent design. It's important to note that we customized Bootstrap styles to align with our project's theme by adding our own CSS rules.

11. Testing

Importance of Testing

Throughout the development process, testing played a pivotal role in ensuring our web-based chatbot was reliable and user-friendly. Here's how we approached testing:

User Input Testing: We rigorously tested various types of user inputs to ensure that the chatbot could handle greetings, questions, commands, and even typos effectively. This helped us fine-tune the chatbot's understanding and response mechanisms.

Response Validation: To guarantee the chatbot's accuracy, we assessed its responses for relevance and correctness. We compared the bot's output to predefined responses from our dataset to ensure consistency.

Edge Cases: We examined how the chatbot handled extreme or unexpected inputs. This included scenarios like long messages, empty messages, and non-text inputs. Testing these edge cases allowed us to identify and rectify issues that might not have been apparent during regular interactions.

Conversational Flow: We conducted comprehensive tests to evaluate the chatbot's ability to maintain context and engage in coherent conversations. This involved engaging in extended conversations with the bot to verify that it provided contextually relevant responses.

Performance Testing: Ensuring that the chatbot responded within a reasonable time frame, even under load, was essential. We performed performance testing to guarantee that users would not experience delays or timeouts.

Cross-browser Testing: We verified that the web app functioned consistently across various web browsers. This included testing on popular browsers such as Chrome, Firefox, Safari, and Edge.

Examples of User Inputs and Expected Responses

User Input: "Hello"

Expected Bot Response: "Hi there!"

User Input: "What's the weather like today?"

Expected Bot Response: A relevant response based on the chatbot's training data.

User Input: "Tell me a joke."

Expected Bot Response: A humorous joke.

User Input: "Goodbye"

Expected Bot Response: "Goodbye! Feel free to return if you have more questions."

Testing was an ongoing process, allowing us to fine-tune the chatbot's functionality and provide a seamless user experience.

12. Deployment

Deploying the Web App

Deploying our web app for public access involved several key steps:

Choose a Hosting Platform: We began by selecting a hosting platform that aligned with our project's needs. Each platform comes with unique features and pricing structures. We considered options like Heroku, AWS, and PythonAnywhere. Heroku offered user-friendly deployment, AWS provided customization options, and PythonAnywhere was ideal for Python apps.

Set Up Hosting: We followed the hosting platform's guidelines to create an account and set up our hosting environment. This step involved configuring server settings and ensuring that the environment was compatible with our application.

Upload Code: We uploaded our web app code and associated files to the hosting platform. This included all the HTML templates, CSS files, JavaScript files, and the Python code responsible for running our Flask application.

Configure Domain: For projects with custom domain names, we configured the domain to point to our deployed application. This step ensures that users can access the chatbot through a user-friendly URL.

Test and Monitor: After deployment, we conducted thorough testing to ensure that the web app functioned as expected in the hosted environment. We monitored the performance and user experience to identify any potential issues.

Documentation for Deployment

In our project documentation, we provided detailed instructions for deploying the web app. These instructions included step-by-step guidance for each recommended hosting platform, as well as guidance on handling dependencies and setting environment variables. Proper documentation is essential for ensuring that others can deploy and access the web-based chatbot successfully.

Documentation

The Significance of Documentation

As we moved into the final phase of our project, we realized the crucial role that documentation plays in making our work accessible and understandable. Effective documentation not only serves as a guide for

developers, users, and maintainers but also fosters collaboration and ensures the project's long-term success.

Our Documentation Structure

We structured our documentation to make it comprehensive and user-friendly. It consists of several key sections:

Introduction: At the outset, we provide a brief introduction to our project, outlining its goals and purpose.

Prerequisites: Here, we list the software and dependencies required to run our application, providing detailed instructions on how to set up the necessary environment.

Getting Started: We offer a step-by-step guide to help users set up and run our application locally. This includes configurations and settings to ensure a smooth start.

Project Structure: We explain the structure of our project's directories, clarifying the role and organization of each component.

Styling: Our styling section delves into the visual aspects of our project. We detail our choices regarding color schemes, fonts, layout, and other design elements that contribute to the aesthetic appeal of the chat interface.

Testing: To ensure the reliability and functionality of our chatbot, we provide guidelines for users to test its performance. This section covers various scenarios and user inputs to assess the chatbot's capabilities.

Deployment: We share our deployment process, guiding users on how to make our web app accessible over the internet. This includes instructions for different hosting platforms and any server configurations.

Chatbot Logic and Dataset: An integral part of our documentation, we elaborate on the chatbot's logic and how we integrated our dataset for training. This sheds light on how the dataset improves the chatbot's responses.

Documentation for Deployment: Recognizing the importance of dedicated deployment instructions, we offer a separate section that delves into specific deployment steps, server configurations, and performance optimization.

Conclusion: In the concluding section, we summarize the achievements of Phase 4, highlighting our successful integration of the chatbot into a web app.

References: We acknowledge the external resources, libraries, and documentation that were invaluable to us during the project's development.

Conclusion

Reflecting on Phase 4

Phase 4 marked a pivotal point in our project's journey, bringing us closer to the realization of our vision. As we integrated our chatbot into a web application, our focus shifted towards enhancing the user experience and accessibility.

Visual Appeal and User Experience

One of the central objectives of this phase was to elevate the visual appeal of our chat interface. We carefully selected colors, fonts, and layout elements to create an engaging and user-friendly environment. Chat bubbles, transitions, and responsive design were employed to ensure a polished and professional appearance.

Rigorous Testing for Reliability

Testing played a fundamental role in ensuring the reliability of our chatbot. We ventured into various user inputs, assessing its performance under different circumstances. From greetings to complex queries, we meticulously evaluated the chatbot's ability to understand and respond effectively.

Successful Deployment

Our journey in Phase 4 concluded with the successful deployment of our web app, making it accessible to users worldwide. The deployment process encompassed choosing an appropriate hosting platform, configuring hosting environments, and setting up domains for seamless access.

Looking Ahead to Phase 5

As we embark on the final phase of our project, we are eager to see our chatbot in action on a broader scale. The integration of our chatbot into a web app opens doors to increased user engagement and interaction. We eagerly anticipate user feedback to further refine and enhance our chatbot and web application.