



ADVANCED iOS APPLICATION DEVELOPMENT

MPCS 51032 • SPRING 2020 • SESSION 1C

ASSIGNMENT 2

POP QUIZ

What do John Travolta, Barack Obama, Shaquille O'Neil,
Whoopi Goldberg, Glenn Beck, Jay Leno, Cheech Marin,
Jerry Seinfeld, Sting, Queen Latifah, Jimmy Buffett,
Madonna, Spike Lee, Jerry Garcia, Paul McCartney, Jamie
Lee Curtis, Bob Dylan, The Dutchess of York and Steve
Martin have in common?

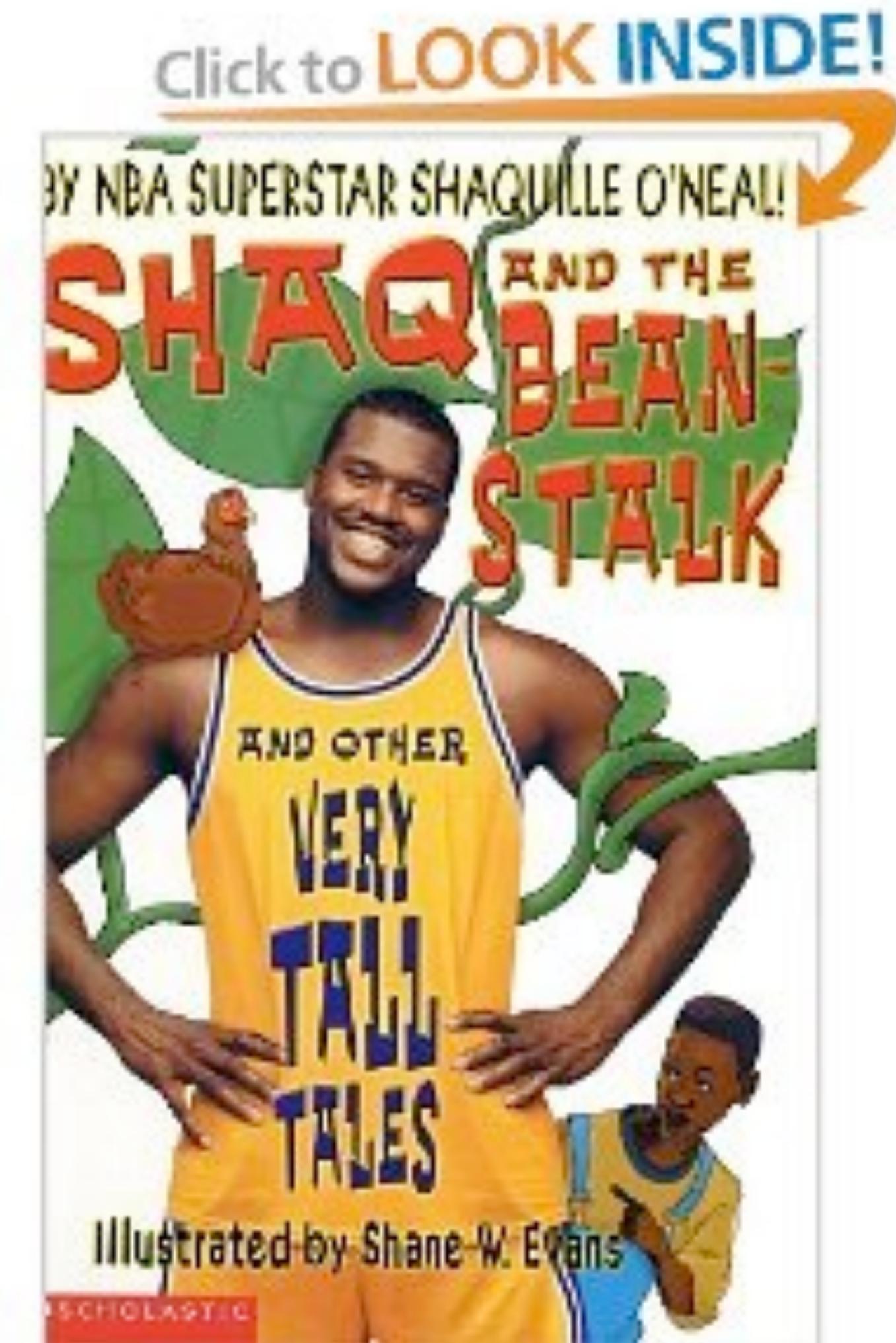
ASSIGNMENT 1



IF A CELEBRITY CAN DO IT, SO

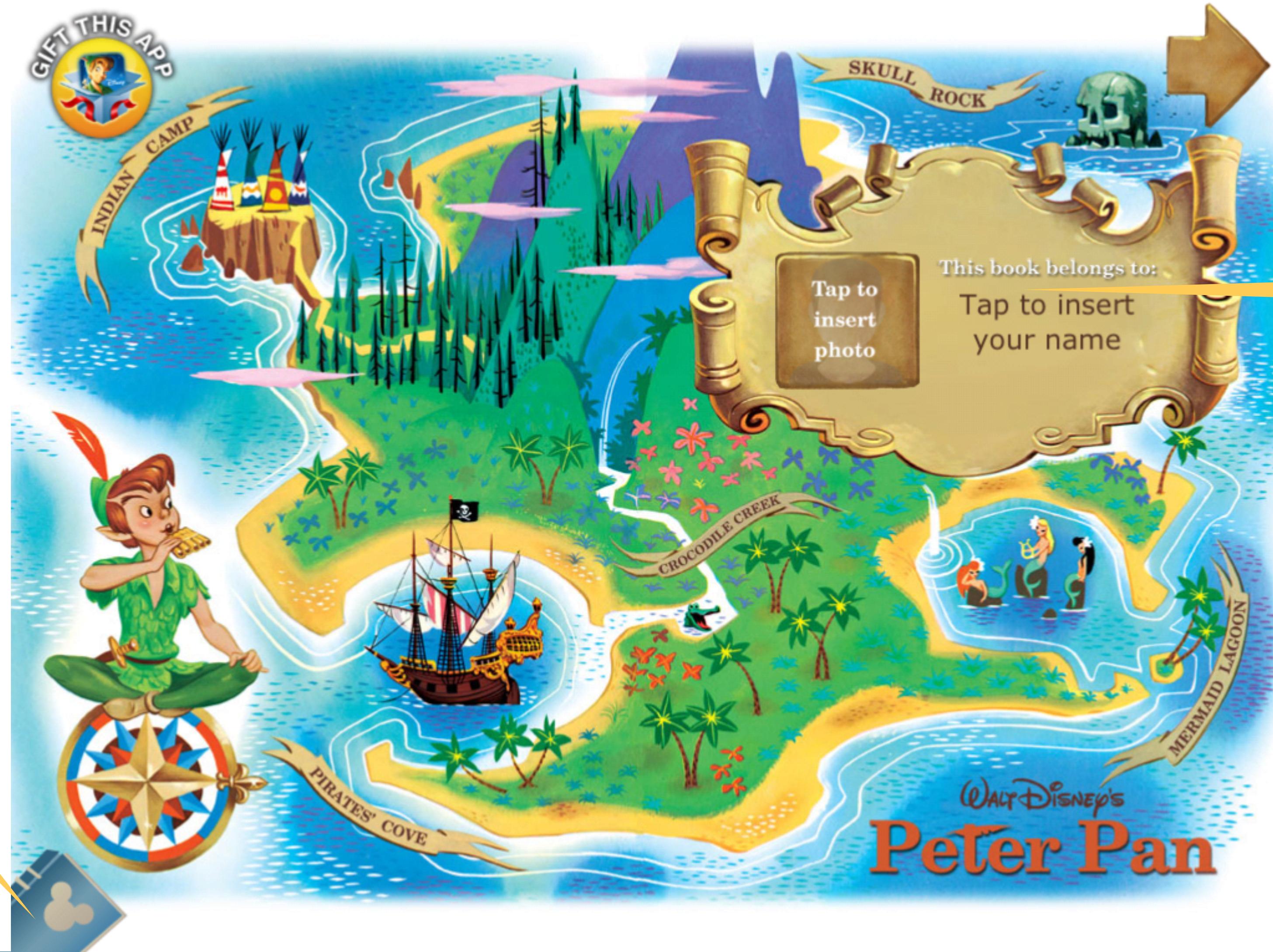
CAN YOU

- Create a children's book using `UIPageViewController
- A hilarious, heartwarming and/or educational tale
 - At least 6 pages of unique content
- Must be better than "Shaq and Beanstalk"



ASSIGNMENT 1

About the author

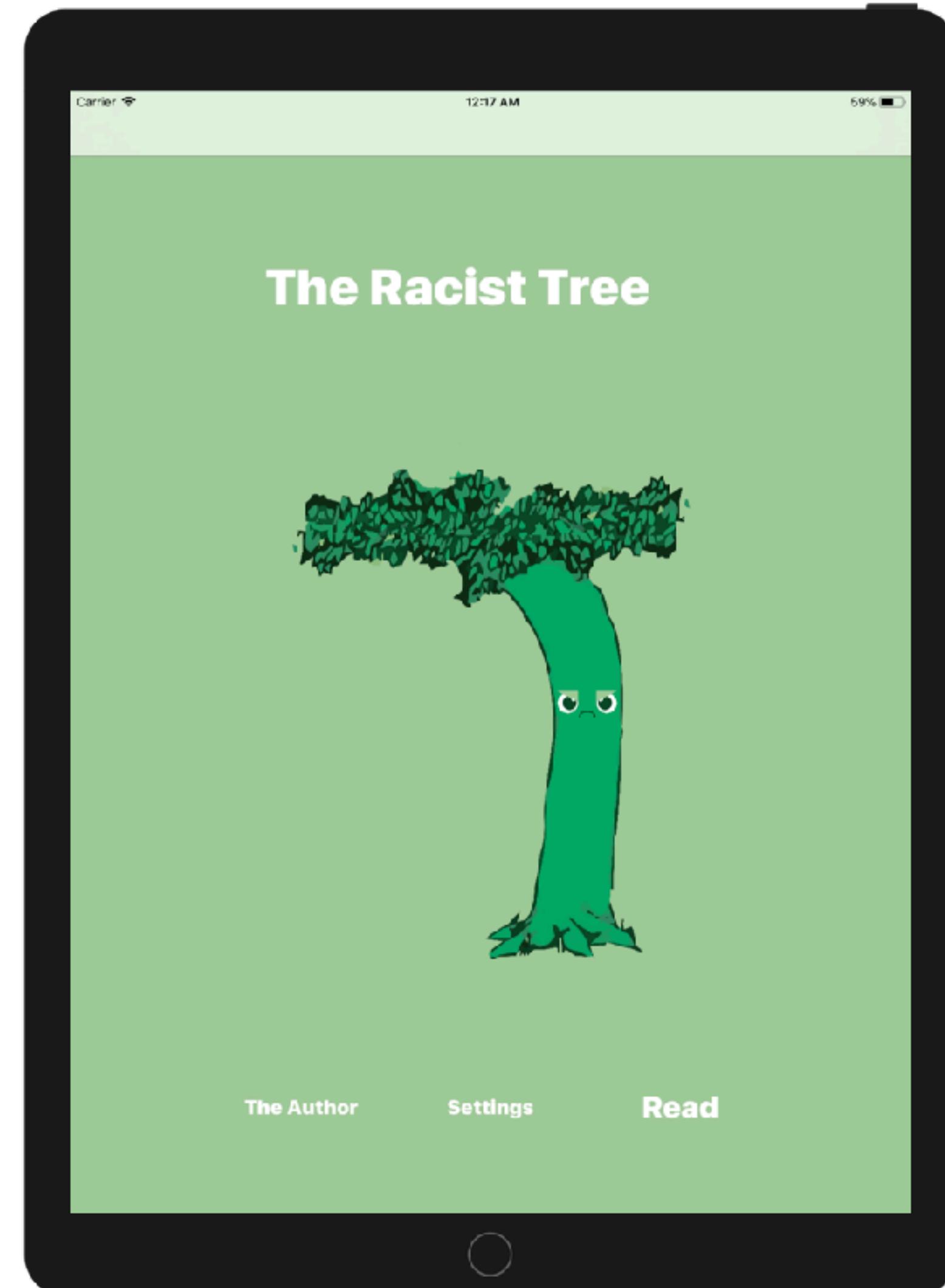


Settings

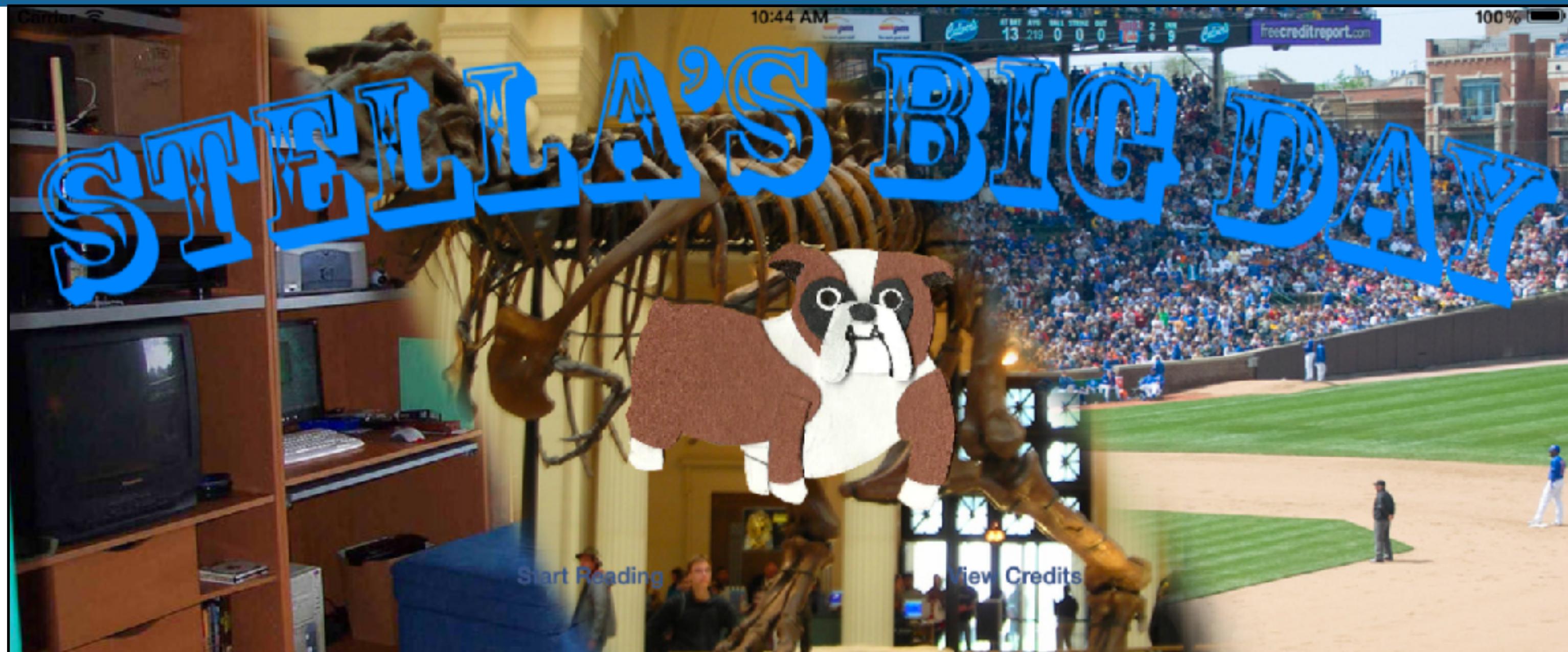
ASSIGNMENT 1



ASSIGNMENT 1



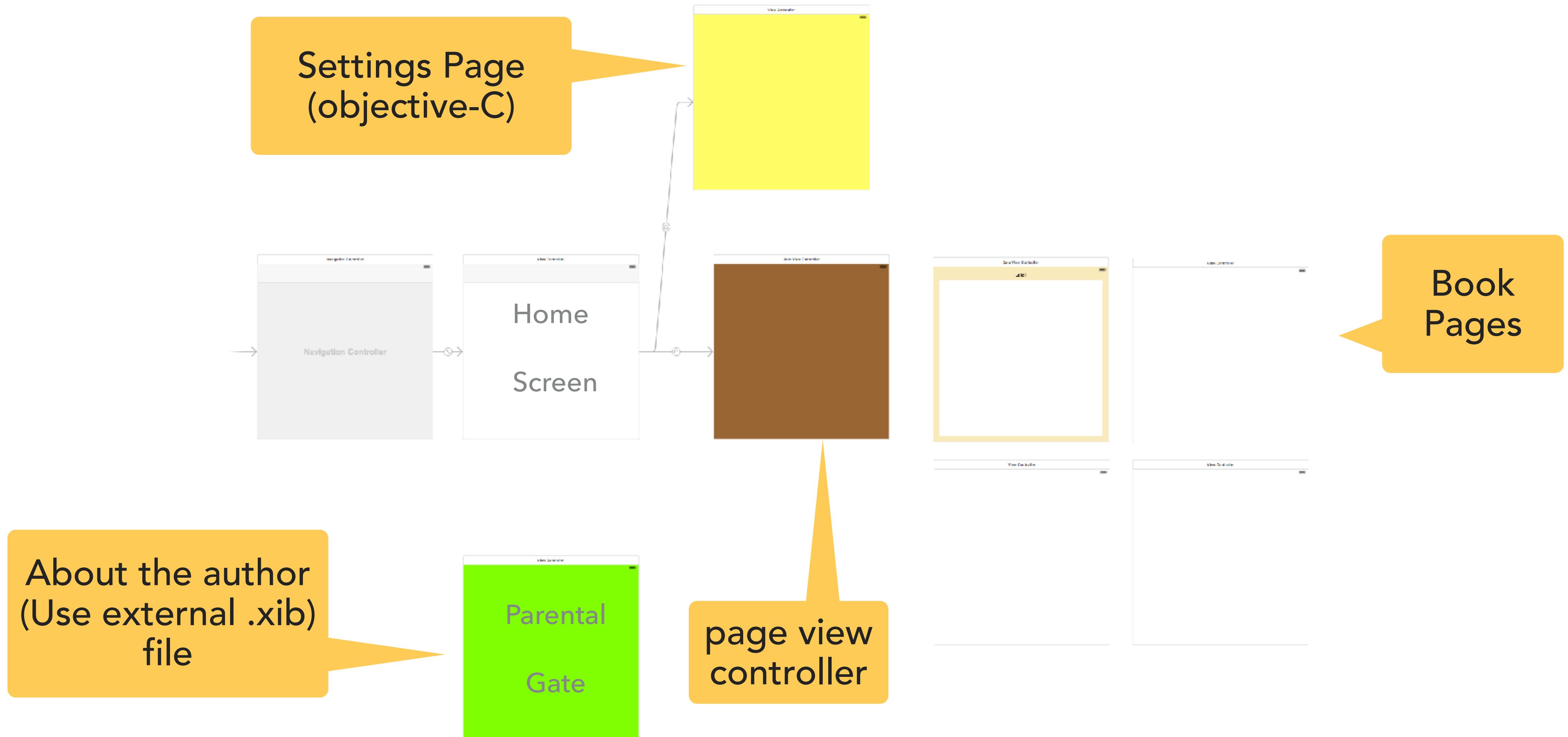
ASSIGNMENT 1



ASSIGNMENT 1



OVERALL REQUIREMENTS



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- “Home Page” that represents the beginning of the book
- “Settings page” for “Read to Me” options (objective-c)
 - Automatically play on each page
 - Tap-to-play
 - Store these preferences in `UserDefaults`
- “About the Author” page protected by Parental Gate (external .xib file)
- Store currently reading page so that book opens to last view paged
- Create an App video of your book

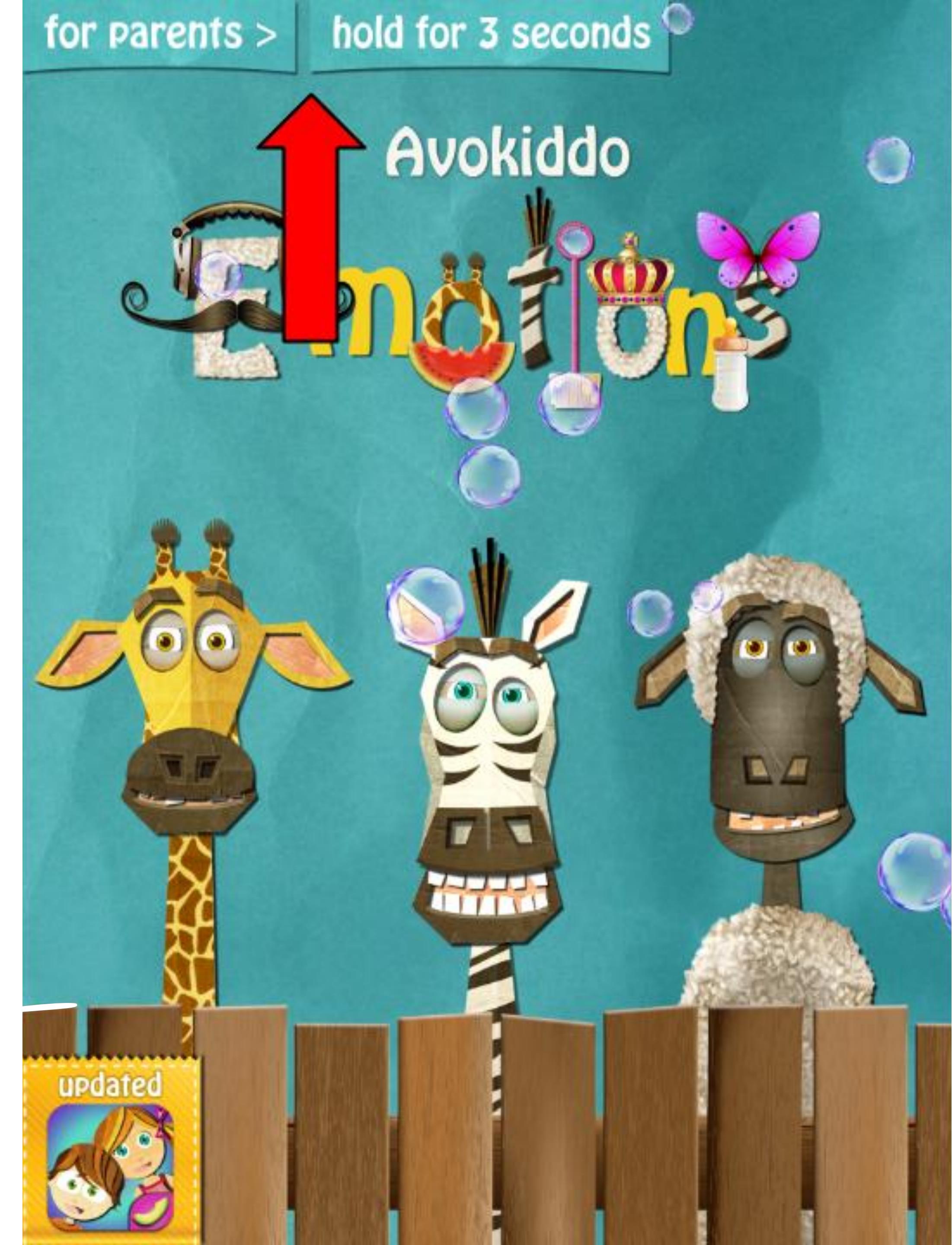
BOOK PAGES

- Every content page must implement:
 - “Read to me” functionality
 - Record sound using Audacity, Garage Band, iPhone and email to self (UITextKit, AVSpeechSynthesis, next week)
 - Words should highlight as they are read
 - Start automatically or by button tap (depending on user preference in settings)
 - Picture and text
 - You must use `UIDynamics` for on-screen element (next week)
 - `UIGestureRecognizer` of on-screen element
 - UIViewPropertyAnimator based animations
 - Tap to hear sound effects
 - Button to return to home page

PARENTAL GATE

SUBTITLE

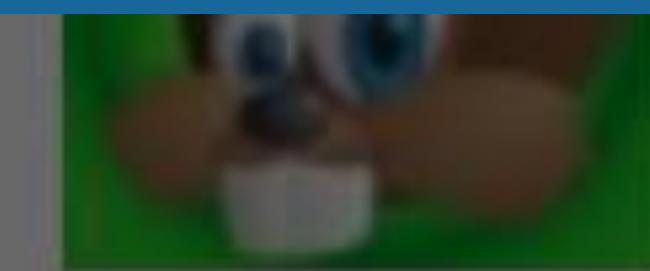
- Features are intended for parents, not kids
 - In-app purchase
 - Signup for news
 - Social Media
- Prevent kids from accessing inappropriate content



PARENTAL GATE

- Implementation used to be a best practice, now it is required
 - 24. Kids Apps
 - 24.3- Apps primarily intended for use by kids under 13 must get parental permission or use a parental gate before allowing the user to link out of the app or engage in commerce
- This requires gating when linking out of the app or engaging in commerce such as selling in-app items.

PARENTAL GATE



More Fun!



ARE YOU AN ADULT?

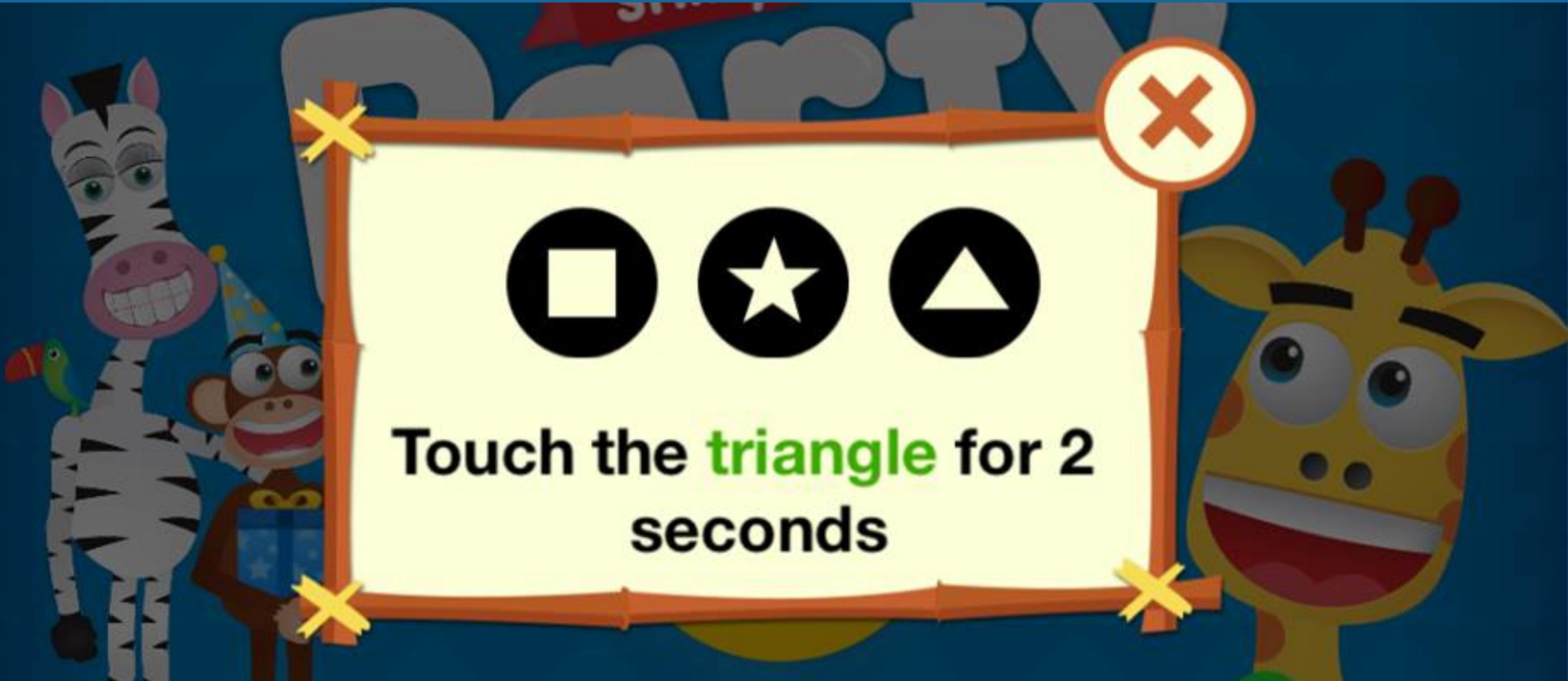
What is **20 - 5 =**

Submit



PARENTAL GATE

Touch the **triangle** for 2
seconds



PARENTAL GATE

REQUIREMENTS

- Implement a Parental Gate for your book app
 - Triggered when the user tries to view the “About the Author” screen
 - In practice the credits screen would typically have a link to social media
- Custom finger drawing view for validator
- Needs to use custom error handling do-try-throw
 - Custom ErrorType

SETTINGS PAGE

REQUIREMENTS

- Settings page in objective-c 😳
- Allow user to select preference to automatically read the page
 - Default should be "on"



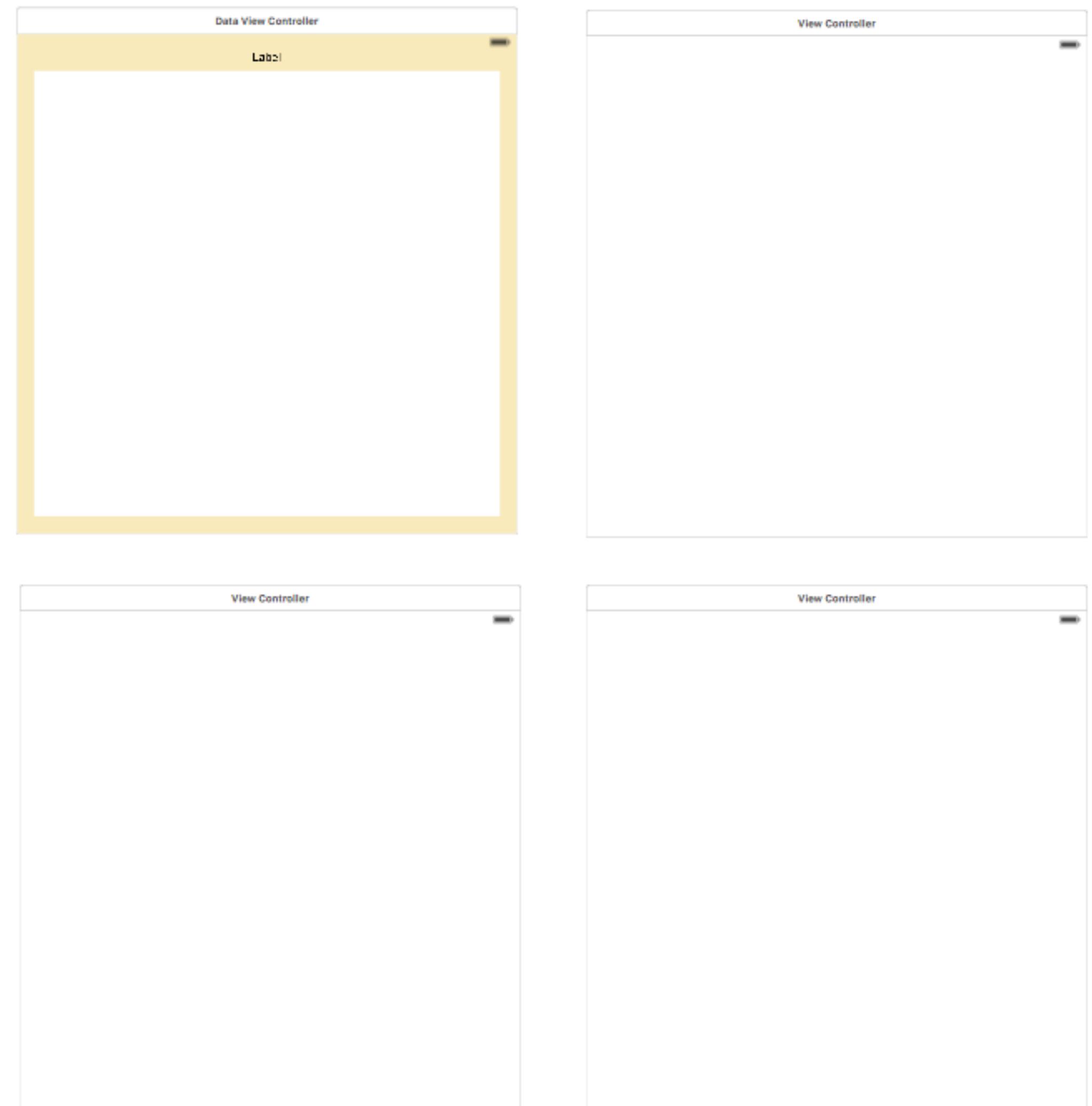
Read to me



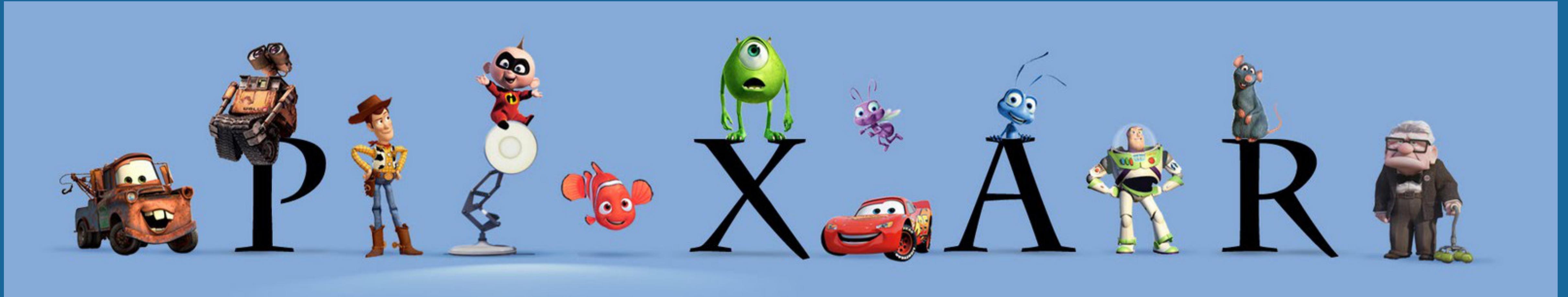
BOOK PAGE OPTIONS

SUBTITLE

- Implementations options
 - View controller per page
 - Create view controller templates
 - Design 3 different styles of pages
 - Each page is a dictionary that includes images paths, text, sound file paths, animation start/stop frames



DUE DATE



- Due April 16th at 5:29 PM
 - 2 Weeks
 - No late homework accepted
- “It’s all about story...story, story, story.” ~John Lasseter

RECOMMENDED WORK FOR THIS WEEK

- Page View Controller
 - Get basic layout
 - Back to home button
 - Save current page
 - How to handle interrupted page turns
- Book pages
 - Draw them out
 - Sound effects
 - Interactive element
 - Text-to-speech

GOING OVER NEXT WEEK

- Settings screen
 - Obj-c first app from Apple
 - Obj-c bridging header
- Parental gate
- App Preview
- Picture and text
 - `UIDynamics` for on-screen element
 - UIViewPropertyAnimator



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