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Smart Teleprompter

Description

Smart Teleprompter is a simple to use teleprompter app with powerful features. Import a speech or create one in the app. Smart Teleprompter can “auto scroll” adjustable using the volume rockers or use the “advance by voice” feature to scroll at the pace in which you speak to give a

more natural flow. Cast the app to a Google Cast device turning it into an actual teleprompter. Use it to practice your speech, or sound like a pro on stage or in front of the camera. Future releases to include integration with all popular cloud storages.

Intended User

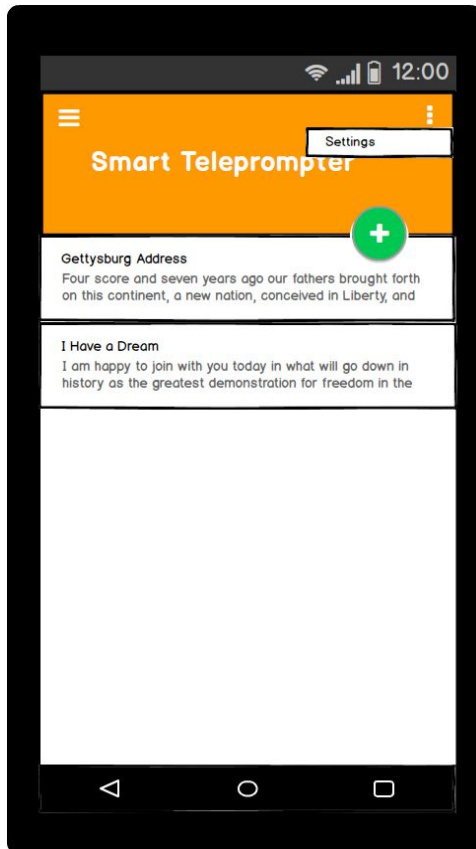
- Business Professionals
- Public/Motivational Speakers
- Educators
- Students
- Performers
- News Telecasters

Features

- Create Speeches
- Customizable Speech Screens
- Adjustable Auto Scroll
- Advance by Voice(Scroll speech using speech recognition)
- Cast to turn any Google Cast device to make it act as a teleprompter
- Thesaurus search
- Integrate with Cloud Storages(Future release)
- Dynamic Speeches, for speeches created on the fly. For Example: News telecasts(Future release)

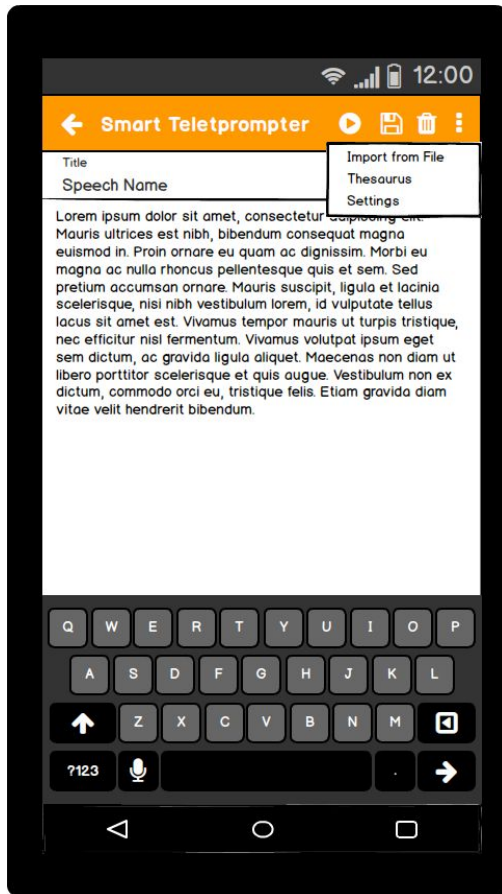
User Interface Mocks

Start Screen



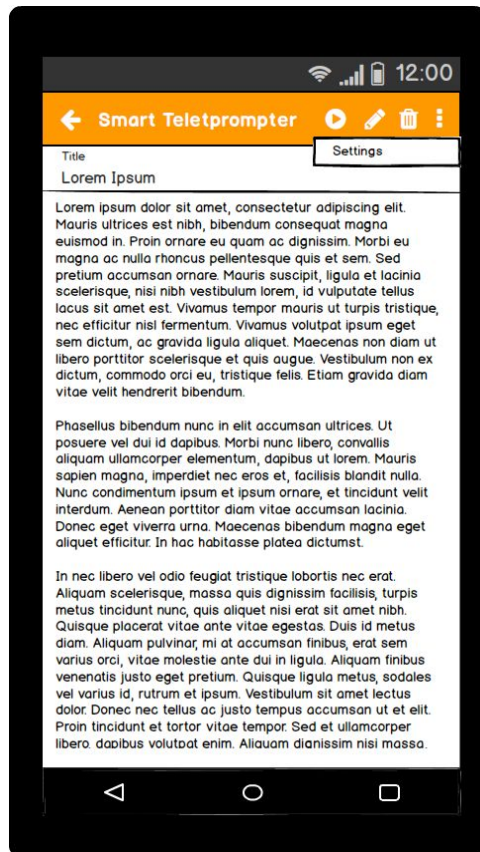
The start screen will display the user's speeches in a list. Clicking on the add FAB will take you to the New Speech Screen. Clicking on an existing speech will take the user to the Speech screen. Clicking on the navigation icon in the top left opens a menu which include the settings and accessing the User's Drive account.

New Speech Screen



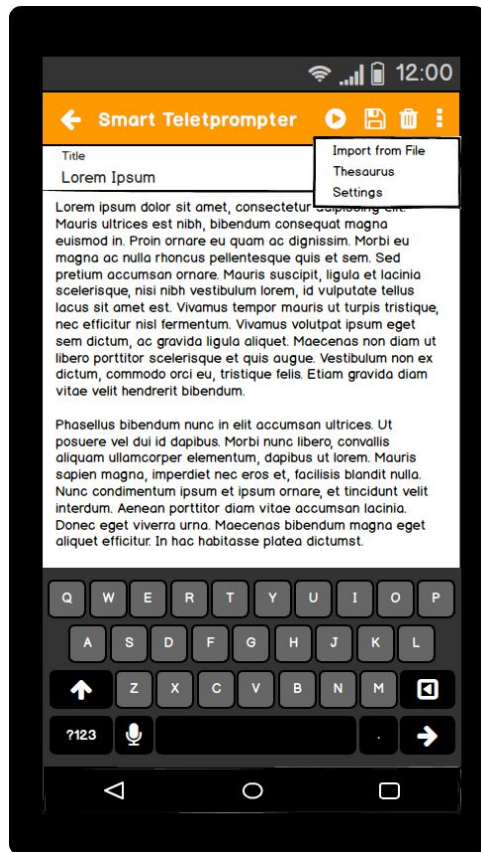
The New Speech Screen allows the user to create a new speech right on the phone. Clicking the play button will allow the user to preview the speech in presentation mode. The user will also be able to save, delete, import from a file on the device and choose to go the settings page to adjust settings for the app. Thesaurus options allows the user to lookup a synonym for a word and add it to the speech.

Speech Screen



The Speech Screen allows the user to view speech. Clicking the play button will start presentation mode. The user will also be able to delete and choose to go the settings page to adjust settings for the app. Clicking the edit button will open the Edit Speech Screen.

Edit Speech Screen



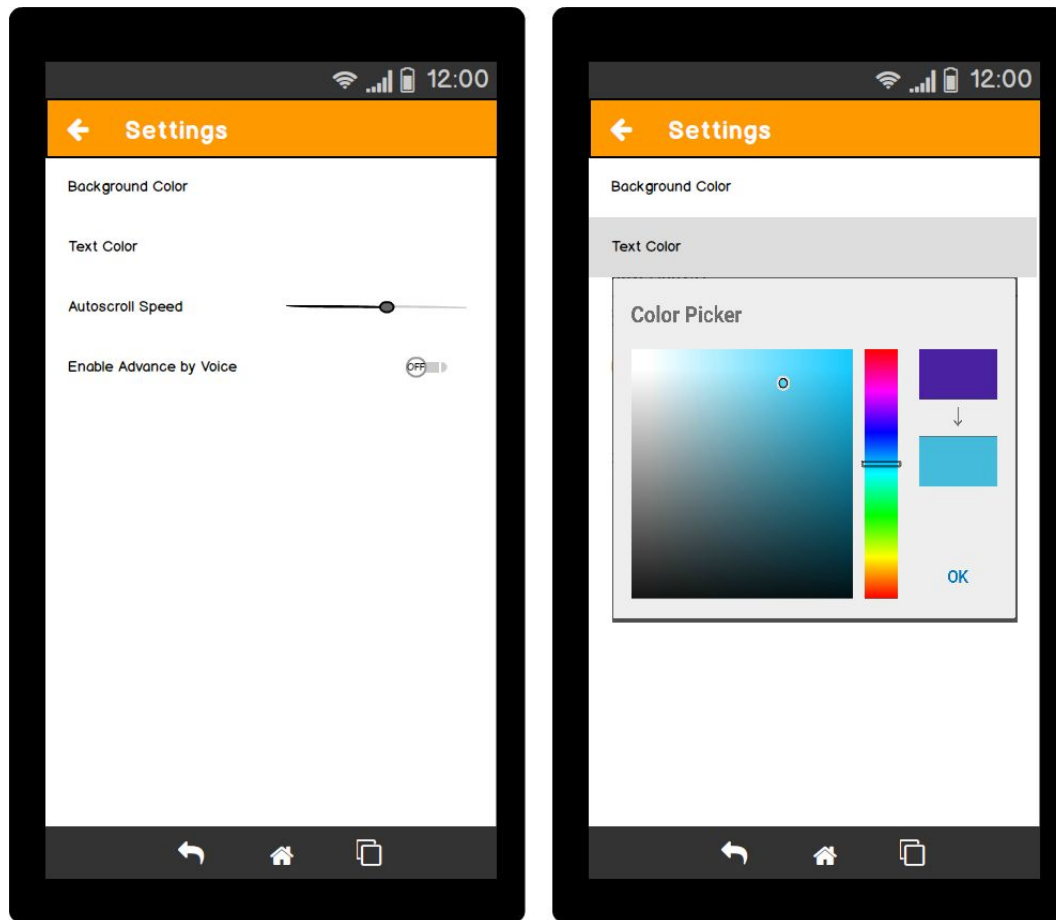
The Edit Speech Screen allows the user to edit their speech right on the phone. Clicking the play button will allow the user to preview the speech in presentation mode. The user will also be able to save, delete, import from a file on the device and choose to go the settings page to adjust settings for the app. Thesaurus options allows the user to lookup a synonym for a word and add it to the speech.

Speech Play Screen



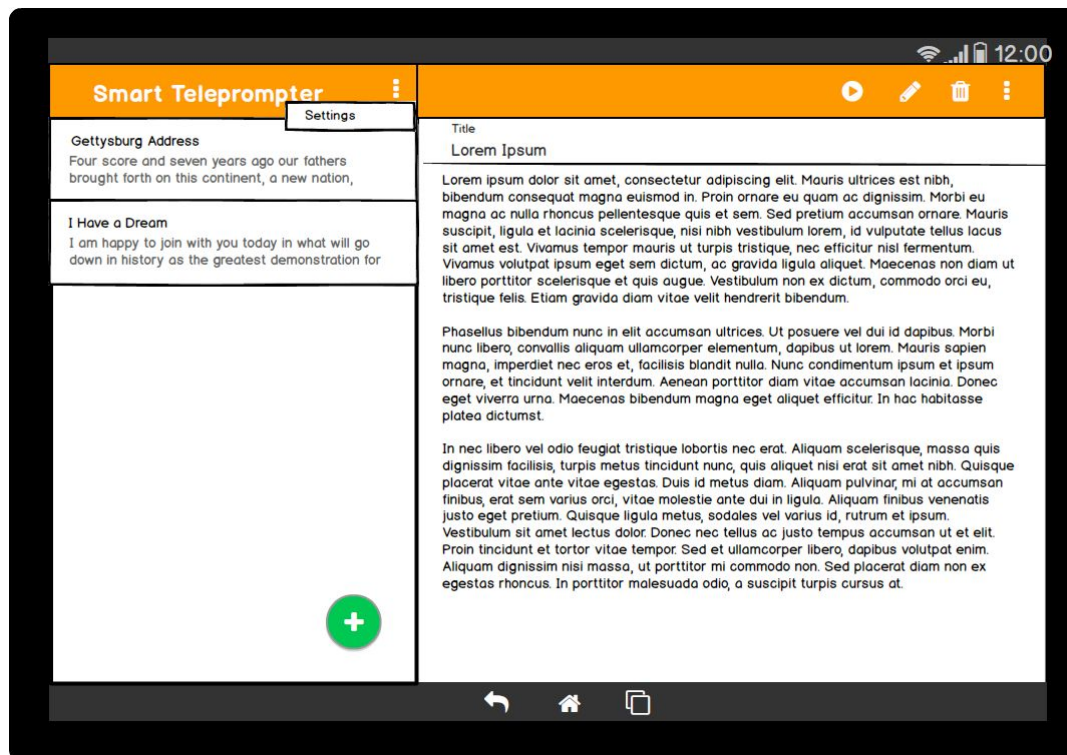
The Speech Play screen will contain the user's speech in a scrollable view. With an overlay on top to emphasize where in the speech the user is at. The emphasis area will move down the speech drawing the user's attention to where it needs to be in the speech. If there is more text off screen the emphasis area will stop in the middle of the screen until the last of the text is on screen, which it will then continue to scroll down the screen until the end is reached. There will pause and stop buttons on the action bar so the user can stop or pause as necessary.

Settings Screen



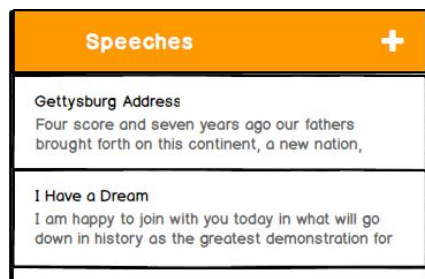
The Settings Screen will allow the user to personalize the app to their preferences. The color settings will bring up a dialog with a color picker widget. Autoscroll speed will be a slider to easily increase/decrease the rate of the autoscroll. Enable Advance by Voice will be an on/off switch.

Tablet Main Layout



Tablet layout will be a list/detail design. Clicking on a speech or the new FAB will bring up their fragments in the detail view.

Home Screen Widget



Designed after the Google Keep widget. Lists all available speeches and allows the user to select one to edit or add a new one in the app.

Key Considerations

How will your app handle data persistence?

I will be using Schematic, a third party library, to create a SQLite Database and Content Provider. Settings will be stored to the general preferences.

Describe any corner cases in the UX.

For users with visual disabilities may have problems with the Play Speech screen. To help with that a work around would be to have the app read the speech to the user while it scrolls.

Describe any libraries you'll be using and share your reasoning for including them.

Butterknife to simplify the layout bindings. Schematic to handle the creation of a local SQLite DB and create a content provider. ColorPickerView to provide a color picker dialog for the user to customize the speech play screen to their preferences.

Describe how you will implement Google Play Services.

1. Admob will be used to display a banner ad at the bottom of all screens except the Play Speech screen.
2. Analytics to monitor what are the most used features in the app and make adjustments to improve the user's overall experience.
3. Google Cast to allow the User to cast their speech to any Google Cast device to use as an actual teleprompter.

Next Steps: Required Tasks

Task 1: Project Setup

- Configure libraries
- Obtain API Keys
- Design DB Schema
- Implement Schematic for DB/Content Provider
- Write unit tests to test Schematic DB/Content Provider

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity

- Build UI for New Speech Screen
- Build UI for Edit Speech Screen
- Build UI for Speech Play Screen
- Build UI for Settings Screen
- Build UI for Tablet Main Activity

Task 3: Implement Each Activity and/or Fragment

- Create Activity for Main Activity
- Create Activity for New Speech
- Create Fragment for New Speech
- Implement Save
- Implement Loader in Main Activity to connect List Adapter
- Create Activity for Edit Speech
- Create Fragment for Edit Speech
- Implement Loader in Edit Speech to load speech information into UI
- Create Activity for Speech Play
- Create Fragment for Speech Play
- Implement Loader in Speech Play to load speech information
- Create Activity for Settings
- Implement AsyncTask to connect to Thesaurus API for Thesaurus dialog
- Implement Thesaurus dialog

Task 4: Implement Home Screen Widget

- Implement UI
- Implement Activity

Task 5: Implement Admob Google Play Services

- Add banner ads to all relevant layouts
- Implement Admob services in Activity/Fragments

Task 6: Implement Analytics Google Play Services

- Add Analytics to Main Activity
- Add Analytics to New Speech
- Add Analytics to Edit Speech
- Add Analytics to Speech Play

- Add Analytics to Settings

Task 7: Implement Google Cast

- Create Google Cast receiver
- Implement Google Cast in Activities/Fragments