

OTPGen: Two-Step Authentication Password Generator App

Dillan Bailey, Jonathan Francis, Edwin Villarroel, Thinh Nguyen, Noah Smith
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Professor Sadjadi
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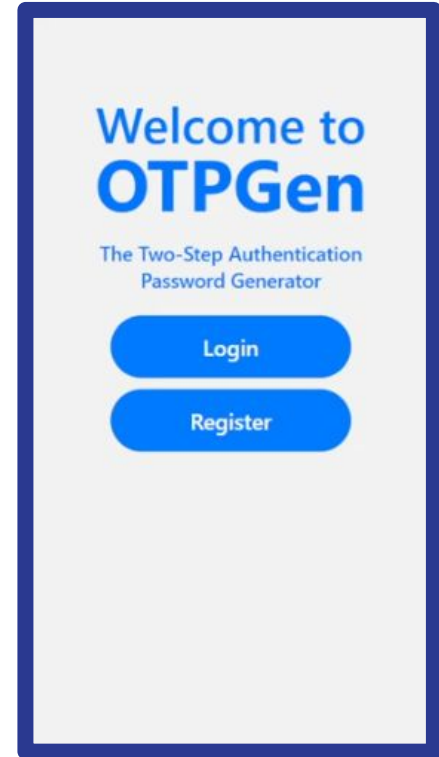
Security Breach Issues in Society

- One problem many people face in our modern society is the high risk of security breach when it comes to social media accounts.
- Many people don't have the high-level technical skills needed to defend their accounts from data breaches and hacking on their own, which is why they need a simple solution to solve these issues.
- This is where OTPGen comes into play.



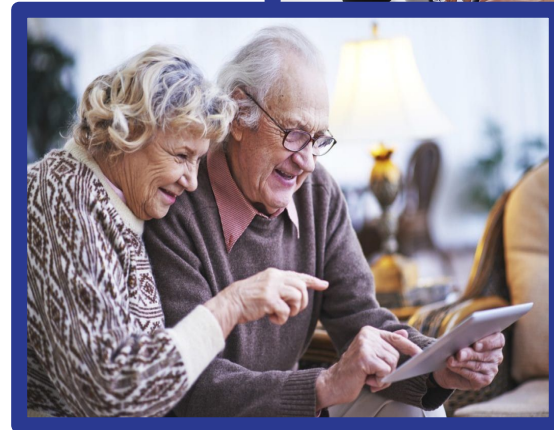
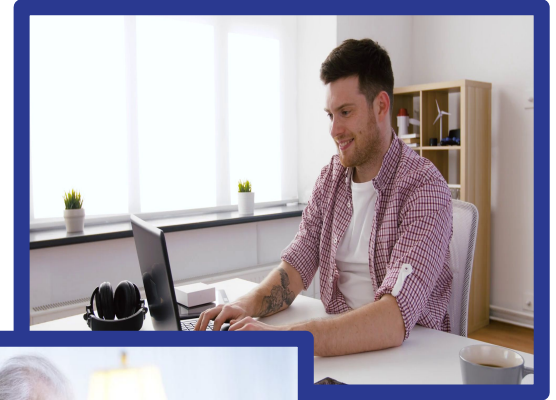
What is the Purpose of OTPGen?

- The OTPGen app adds an extra layer of security when it comes to the process of the user logging into their account, by introducing a verification system to it.
- OTPGen will prove the user with a randomly generated 6-digit two factor authentication passcode associated with their account that they will need to enter if they want to login to that account. Only users with this code can access the account.
- To avoid the passcode being stolen, the set of passcodes reset every 30 seconds.

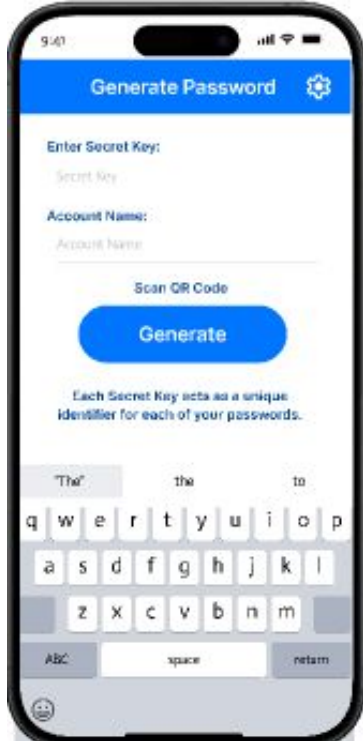


OTPGen Accessibility

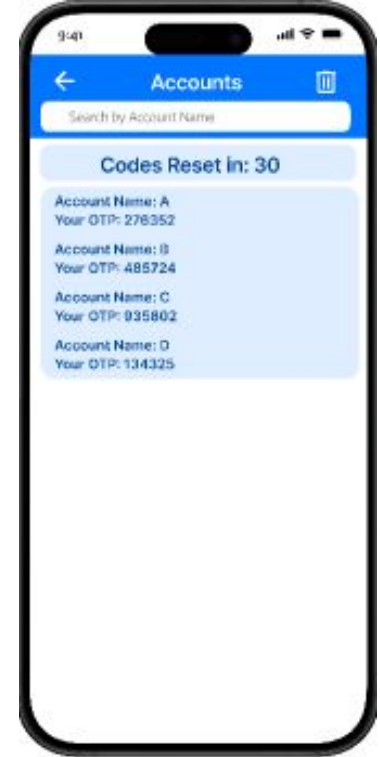
- The OTPGen Application can be utilized on multiple devices, including iOS, Mac, Android, and Windows.
- The simplicity of OTPGen's UI Interface and features allows any user of any demographic to access and utilize the app with ease.



OTPGen Main Functionalities



- Users can add accounts to the app by entering the account name and attaching a custom secret key to it, or scanning a QR code provided by the app.
- Once the user selects the generate option, the account gets added to the list of accounts and a passcode is generated under it.
- A reset timer counts down and whenever it reaches 0, all of the codes on the list reset and generate a new code.
- Users can freely delete any account listed on the list as well.



Additional Functionalities

- Users also have the option to reset their password if they feel the need too. All they must do is type in their current password and their new password, and reconfirm their new password in order to change the passwords on their account.



Potential Future Updates & Improvements

- If any additional features, or improvements, were added to the app, they include:
 - Code customization for user specific needs.
 - Server side options for easier access to generated codes across multiple devices.
 - More methods for security for user data through encryption.
 - More secure storage methods.



Photos Cited

- Dutton, L., Dolmatov, M., dem10, Filistimlyanin, Welcomia, Thinsandee, J., Butsay, Traitov, Sukkasemsakorn, S., Vesalainen, T., Intro, BrianAJackson, Maxkabakov, RainStar, D-Keine, Amtitus, erhui1979, NicoElNino, Kazakov, V., ... Limeart. (n.d.). *Hacked account pictures, images and stock photos*. iStock.
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