









Fast-Stream

A middleware solution for streaming from
Lyve Cloud
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TABLE OF CONTENTS

Introduction	01			04	Solution
Target Challenge	02			05	Demo
Methodology	03			06	QnA



DEVELOPER INTRODUCTION

- Year 2 Information Systems student at SMU
- Around 2 years of programming experience
- Interested in Software Development and Data Science



Build a **middleware** solution **on top of Lyve cloud** that serves as **media streaming server**. It will **authenticate to Lyve cloud** to access the data and **serve the data to web clients**. It can provide **anonymous access** to users. It should **support CORS** for web-pages and keep **TTFB measurements as low as possible**

STREAMING



API FOR WEB CLIENT



HANDLES CORS POLICY



LOW TTFB MEASUREMENTS



TRAILING FORWARD/BACKWARD





ACCESS CONTROL

AUTHENTICATES TO LYVE



ANONYMOUS ACCESS



SECURE KEY STORAGE



SCALABILITY & ERROR HANDLING



SCALE TO REQUESTS



SCALE ACROSS SERVERS



AUDIT LOGS



RESILIENCE/FAULT TOLERANCE



USER PERSONAS



PRIMARY: Cloud Storage User

Willing to use Cloud and
wants an easy-to-use/setup
solution



SERVED: Media Consumer

Cares mainly about how
fast they can watch the
streamed media

METHODOLOGY



SPEED

Uses NodeJS and
SQLITE3 alongside local
caching based on
demand



SCALABILITY

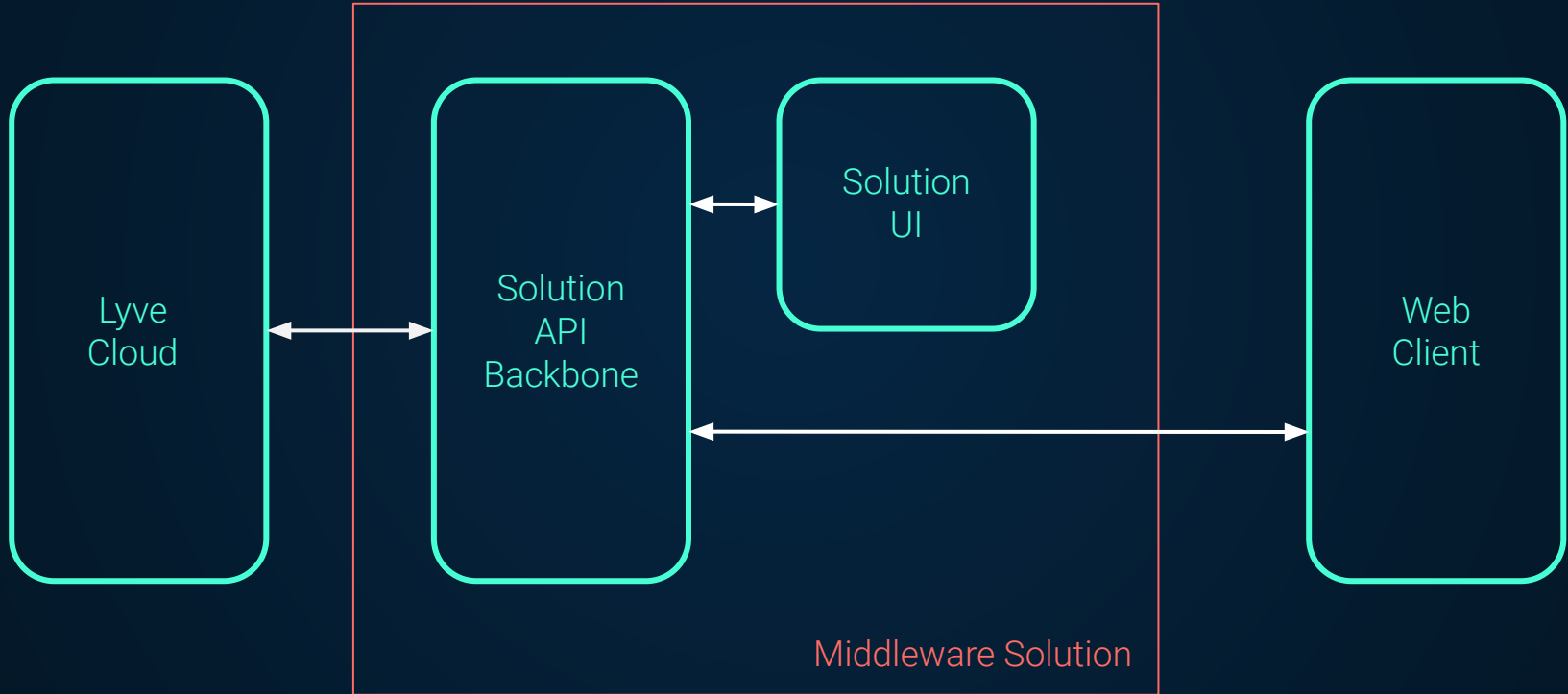
Uses containerisation
for easier deployment
and scaling



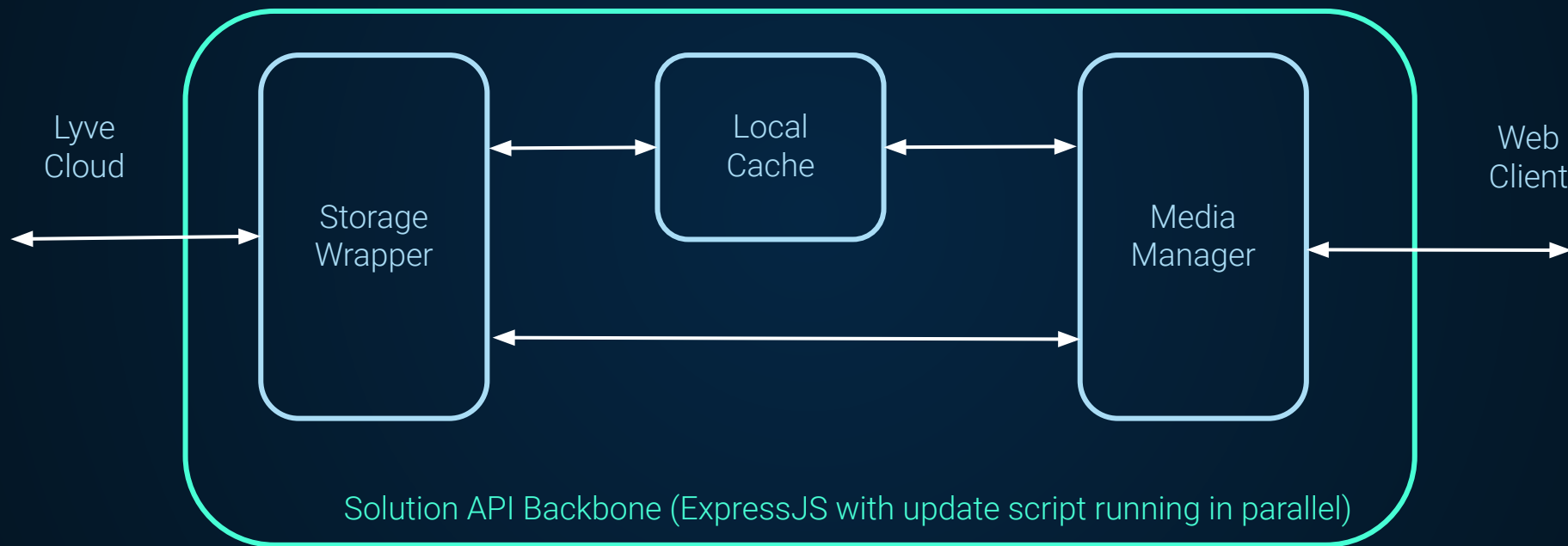
WEB INTEGRATION

Handles CORS policy
and main streaming
method compatible with
plain HTML video
element

SOLUTION



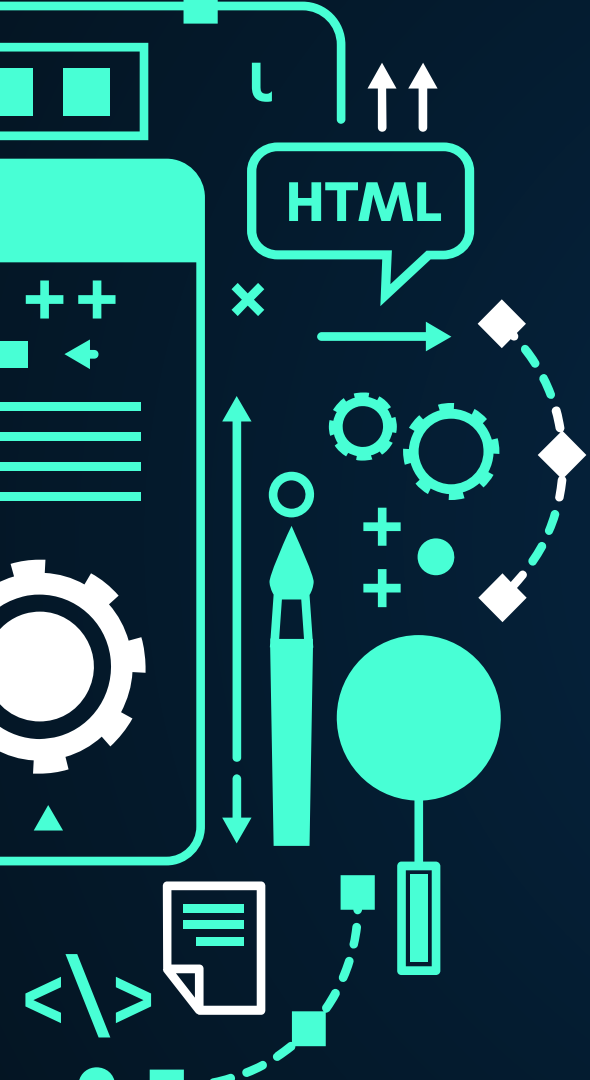
SOLUTION



DEMO



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THANK YOU!

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#0e2a47



#ffffff

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Amico



Bro



Rafiki

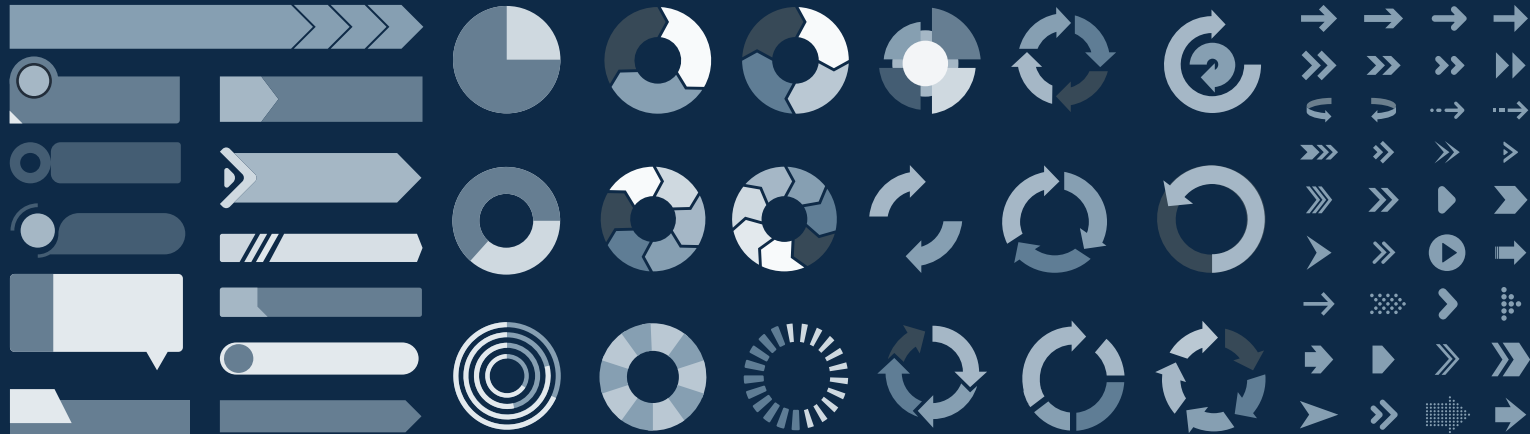


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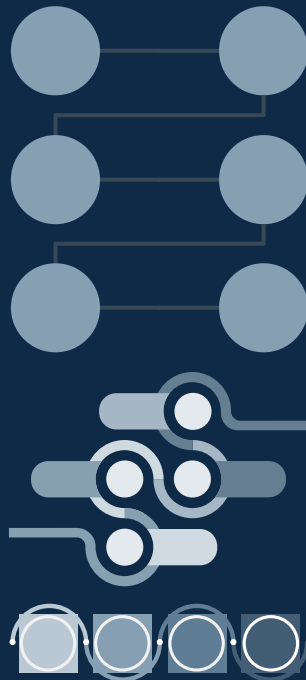
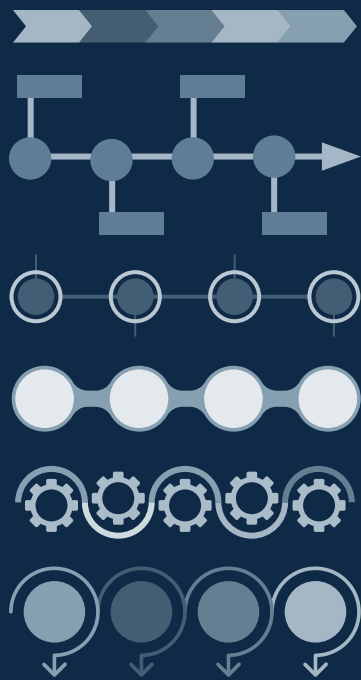
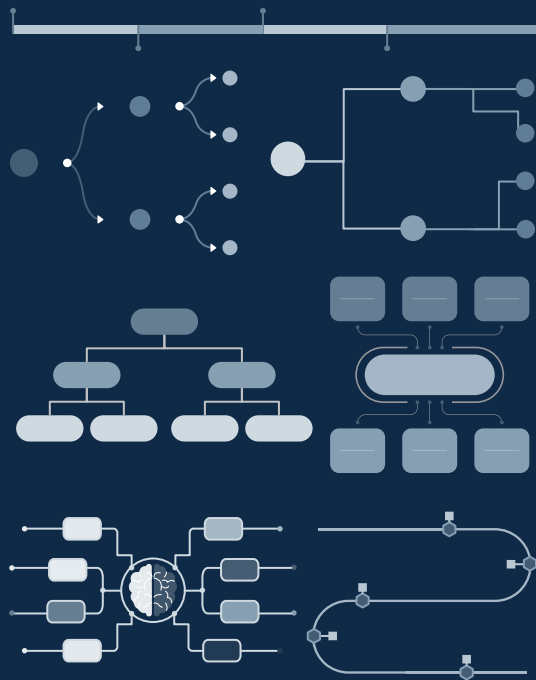
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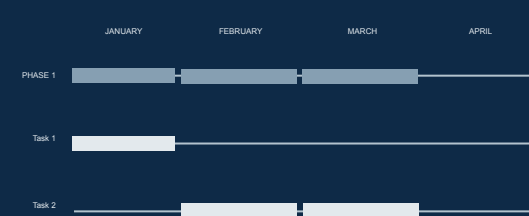
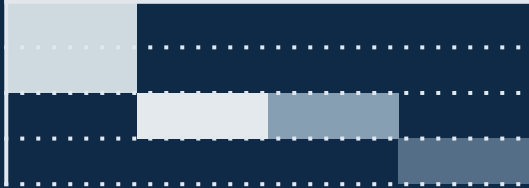
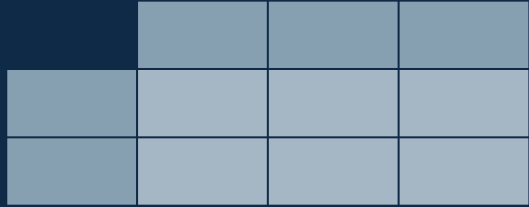
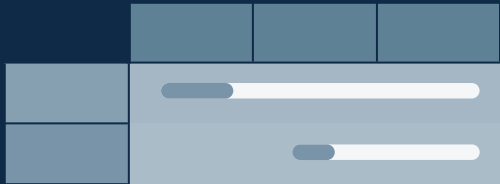
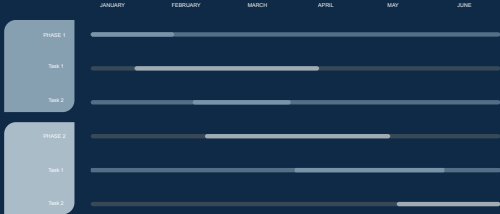
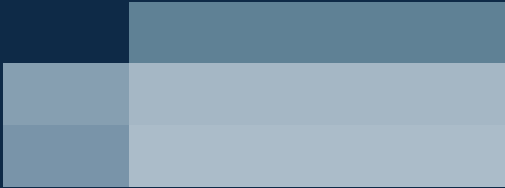
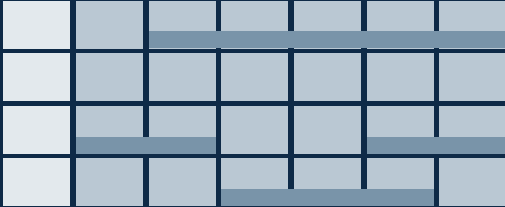
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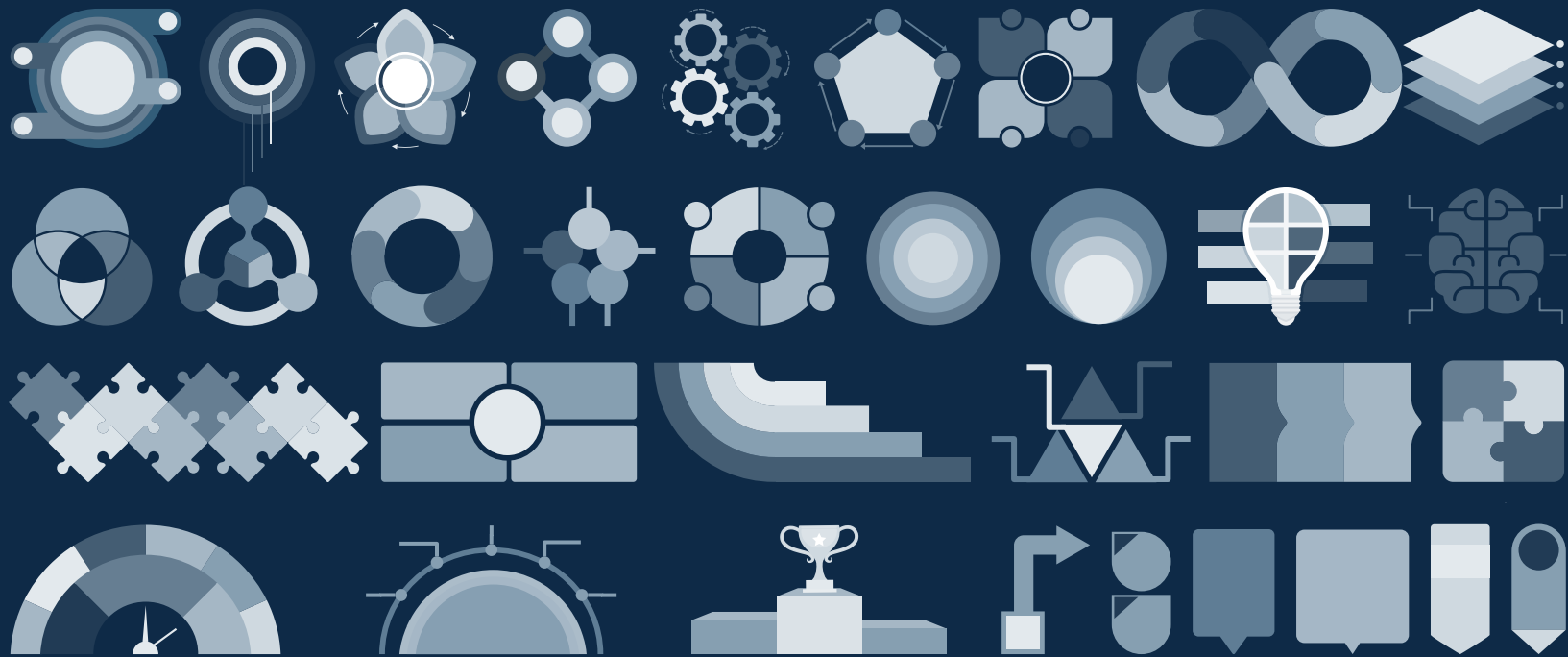
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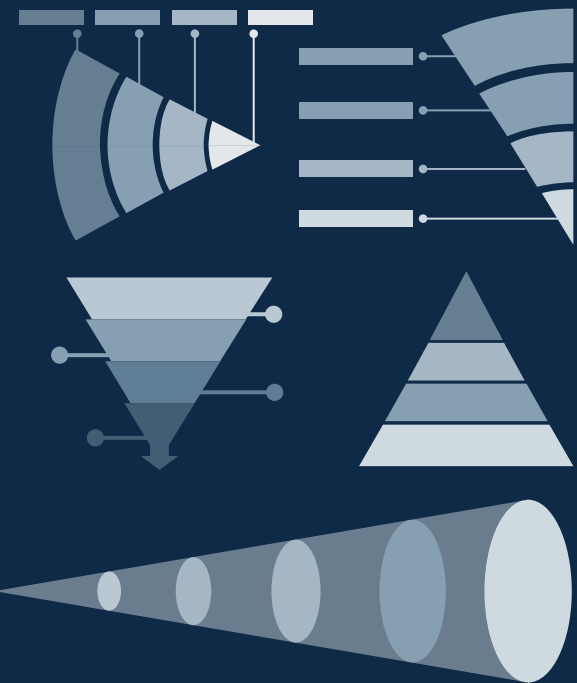
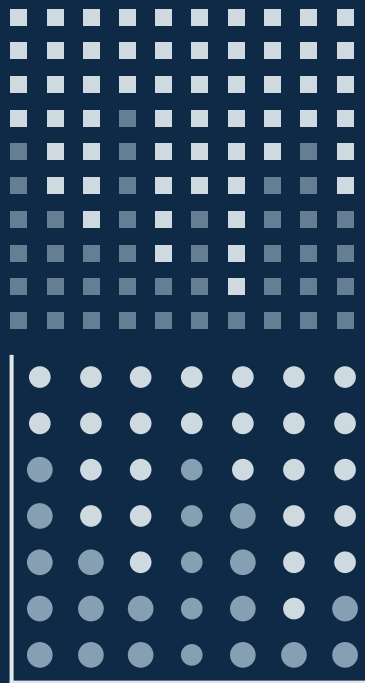












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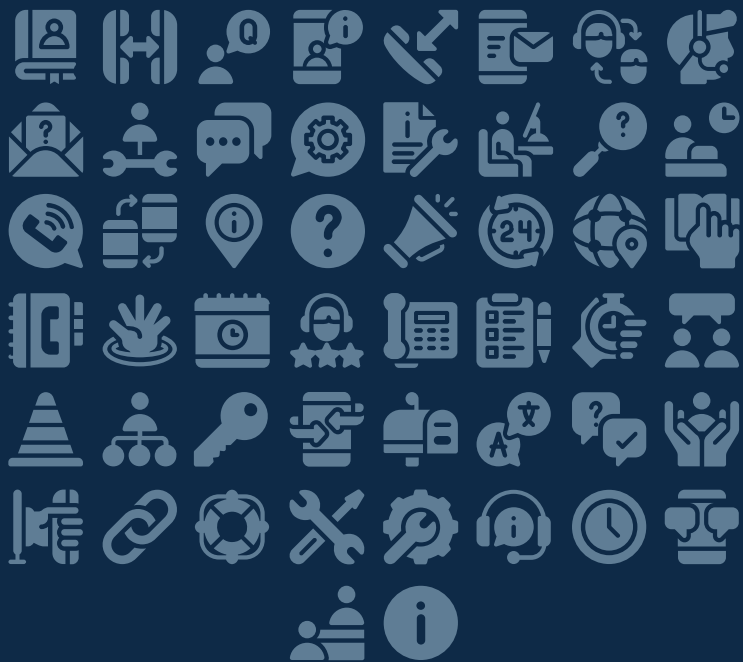
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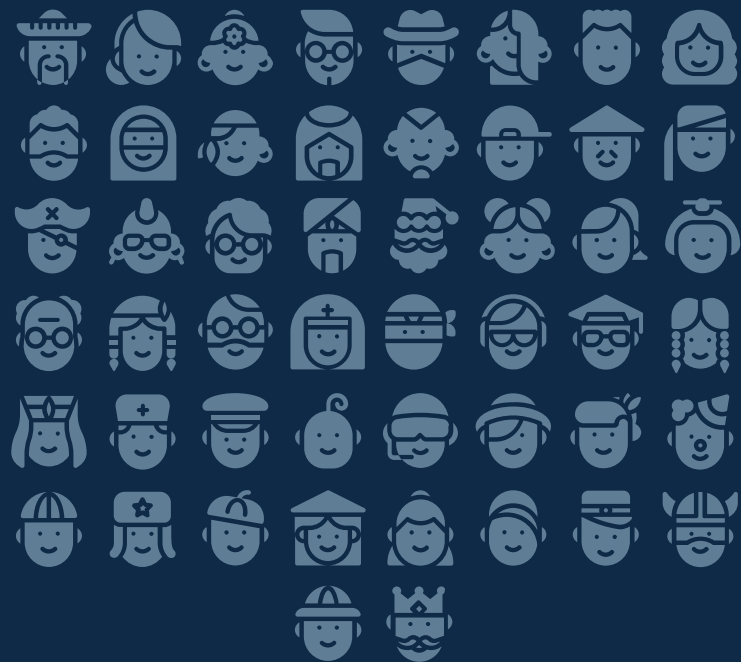
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