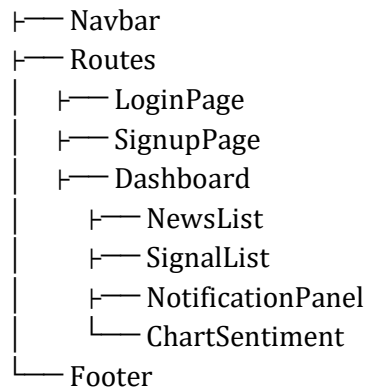


## Pseudocode – Frontend (React.js) RaidAnalyst

Dokumen ini menjelaskan pseudocode rencana implementasi frontend menggunakan React.js untuk sistem RaidAnalyst, berdasarkan modul Frontend yang mencakup tampilan berita, sinyal trading, login, dan notifikasi real-time.

### 1. Struktur Komponen

App.js



### 2. Pseudocode Tiap Proses

#### Proses 1 – Login dan Autentikasi (F-01)

COMPONENT LoginPage:

INIT state: username, password, errorMsg

FUNCTION handleLogin():

IF username OR password is empty:

SET errorMsg = "Username dan Password wajib diisi"

RETURN

SEND POST request TO "/auth/login" WITH username, password

IF response.status == 200:

STORE response.token IN localStorage

NAVIGATE to "/dashboard"

ELSE:

SET errorMsg = "Login gagal, periksa kembali data Anda"

RENDER:

Input field: username, password

Button: "Login" → onClick = handleLogin  
Display errorMsg if any

## Proses 2 – Menampilkan Berita Keuangan (F-02)

COMPONENT NewsList:

INIT state: newsData = []

ON MOUNT:

CALL fetchNews()

FUNCTION fetchNews():

SEND GET request TO "/api/news" WITH Authorization header (token)

IF response.success:

SET newsData = response.data

ELSE:

SHOW "Tidak dapat memuat berita"

RENDER:

FOR each item IN newsData:

DISPLAY item.title, item.sentiment, item.published\_at

COLOR:

green IF sentiment == "positif"

red IF sentiment == "negatif"

gray IF sentiment == "netral"

## Proses 3 – Dashboard Analisis & Sinyal Trading (F-03 & F-04)

COMPONENT Dashboard:

INIT state:

analysisData = []

signalsData = []

ON MOUNT:

CALL loadDashboardData()

FUNCTION loadDashboardData():

PARALLEL CALL:

GET "/api/analysis"

GET "/api/signal"

IF both success:

SET analysisData = response.analysis

SET signalsData = response.signal

RENDER:

SECTION 1: ChartSentiment (visualisasi analysisData)

SECTION 2: SignalList (tabel sinyal dari signalsData)

SECTION 3: NotificationPanel

#### Proses 4 – Notifikasi Sinyal Real-time (F-05)

COMPONENT NotificationPanel:

INIT state: notifications = []

ON MOUNT:

OPEN WebSocket connection TO "wss://server/ws/signal"

ON MESSAGE RECEIVED:

PARSE message AS newSignal

APPEND newSignal TO notifications

SHOW popup notification ("Sinyal baru diterima")

ON CONNECTION LOST:

TRY reconnect after 5 seconds

RENDER:

FOR each notif IN notifications:

DISPLAY notif.message

#### Proses 5 – Logout

**FUNCTION handleLogout():**

**REMOVE token FROM localStorage**

**NAVIGATE to "/login"**

### 3. Integrasi dengan Database

Endpoint	Aksi	Database Terkait
/auth/login	POST	users, roles
/api/news	GET	news_articles, sentiment_analysis
/api/signal	GET	signals, mt5_signals
/ws/signal	WebSocket	notifications

#### 4. Flow Antarmuka (UI)

LoginPage → Dashboard

Dashboard → [NewsList + SignalList + NotificationPanel]

#### 5. Non-Fungsional

- Token JWT digunakan untuk autentikasi.
- API response time < 2 detik.
- WebSocket reconnect otomatis.
- Desain responsif untuk desktop dan mobile.