

# DeFiDash Tracker - Telegram Mini App Guide

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## Overview

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The DeFiDash Tracker Telegram Mini App provides a mobile-optimized interface for accessing crypto market data, whale tracking, and trending tokens directly within Telegram.

## Features

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### 1. Market Overview

- Real-time prices for top cryptocurrencies
- 24-hour price changes with visual indicators
- Trading volume information
- Market capitalization data

### 2. Whale Tracking

- Live whale transaction alerts
- Transaction values and blockchain info
- Timestamp tracking
- Quick access to top whale movements

### 3. Trending Tokens

- Hot and trending cryptocurrency tokens
- Price change percentages
- Volume metrics
- Visual trending indicators

## Setup Instructions



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### For Users

#### 1. Start the Bot

- Search for your bot on Telegram (use bot token: 7683320014:AAH6Ri-KczlVWXXBe1ynz\_LZTOkQjtZIUxw)
- Send `/start` to begin
- The bot will automatically show a “Launch Mini App” button

#### 2. Launch Mini App

- Click the “ Open Mini App” button in the welcome message
- Or use the `/app` or `/miniapp` command
- Or click the menu button (  Open App) at the bottom of the chat

#### 3. Navigate the App

- Use tabs to switch between Market, Whales, and Trending sections
- Tap “Refresh Data” to get the latest information
- Click “Full App” to open the complete web application

## For Developers

### 1. Bot Setup API

Configure the bot's commands and menu button:

```
# Setup bot commands and menu button
curl -X POST https://defidashtacker.com/api/telegram/bot-setup

# Check bot status
curl https://defidashtacker.com/api/telegram/bot-setup
```

### 2. Update Webhook

Set up the webhook to receive Telegram updates:

```
curl -X POST https://defidashtacker.com/api/telegram/setup \
-H "Content-Type: application/json" \
-d '{
  "webhookUrl": "https://defidashtacker.com/api/telegram/webhook"
}'
```

### 3. Mini App Data APIs

The mini app uses the following endpoints:

```
// Whale transactions feed
GET /api/telegram/whale-feed
Response: { success: boolean, transactions: Array }

// Market data feed
GET /api/telegram/market-feed
Response: { success: boolean, data: Array }

// Trending tokens feed
GET /api/telegram/trending-feed
Response: { success: boolean, tokens: Array }
```



## UI/UX Features

### Mobile-Optimized Design

- Responsive layout for Telegram's mobile viewport
- Touch-friendly buttons and interactions
- Compact card-based design
- Smooth scrolling and animations

### Telegram Integration

- Uses Telegram WebApp SDK
- Respects Telegram's theme colors
- Integrates with Telegram's UI paradigms
- Expandable to full screen

### Real-Time Updates

- Live status indicator

- Pull-to-refresh functionality
- Auto-refresh capability
- Visual loading states

## Bot Commands

Users can interact with the bot using these commands:

Command	Description
<code>/start</code>	Start the bot and show welcome message
<code>/app</code> or <code>/miniapp</code>	Launch the Telegram Mini App
<code>/help</code>	Show all available commands
<code>/market</code>	Get current market overview
<code>/whale</code>	View latest whale transactions
<code>/alpha</code>	Get alpha feeds from KOLs
<code>/blockwars</code>	View Block Wars game stats
<code>/settings</code>	Configure notification preferences
<code>/connect</code>	Link Telegram to DeFiDash account

## Data Flow

```
graph TD
    A[User Interaction] --> B[Telegram Mini App (Client-Side)]
    B --> C[API Endpoints (/api/telegram/*)]
    C --> D[Database (PostgreSQL + Prisma)]
    D --> E[Data Response]
    E --> F[UI Update]
```

## Security

- Bot token stored securely in auth secrets
- User authentication via Telegram's initData
- HTTPS-only connections
- Rate limiting on API endpoints

## Testing

### Local Testing

1. Use ngrok or similar tunneling service:

```
ngrok http 3000
```

1. Update webhook URL with ngrok URL:

```
curl -X POST https://your-ngrok-url.ngrok.io/api/telegram/setup \
  -H "Content-Type: application/json" \
  -d '{
    "webhookUrl": "https://your-ngrok-url.ngrok.io/api/telegram/webhook"
  }'
```

1. Test the mini app:
  - Open Telegram
  - Send /app to your bot
  - Click the “Open Mini App” button

### Production Testing

1. Deploy your app to production
2. Configure webhook with production URL
3. Test all features:
  - Mini app launch
  - Market data display
  - Whale tracking
  - Trending tokens
  - Refresh functionality



## Customization

### Styling

The mini app uses Tailwind CSS with shadcn/ui components. Customize in:

- /app/telegram-mini/page.tsx - Main UI
- /app/globals.css - Global styles
- Telegram theme colors are automatically applied

### Features

Add new features by:

1. Creating new API endpoints in /app/api/telegram/
2. Adding UI components in the mini app page
3. Updating the tabs or creating new sections



## Troubleshooting

### Mini App Not Loading

- Check if bot token is configured correctly

- Verify webhook is set up
- Ensure HTTPS is enabled on production

## Data Not Updating

- Check API endpoint responses
- Verify database connectivity
- Check browser console for errors

## Telegram WebApp SDK Issues

- Ensure script is loaded: `https://telegram.org/js/telegram-web-app.js`
- Check Telegram version (mini apps require recent versions)
- Test on both iOS and Android



## Resources

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- [Telegram Bot API Documentation](https://core.telegram.org/bots/api) (`https://core.telegram.org/bots/api`)
- [Telegram WebApp Documentation](https://core.telegram.org/bots/webapps) (`https://core.telegram.org/bots/webapps`)
- [DeFiDash Tracker Main Docs](#) (`./TELEGRAM_INTEGRATION.md`)



## Future Enhancements

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- [ ] User-specific portfolio tracking
- [ ] Price alerts configuration
- [ ] Block Wars game integration
- [ ] Social features (sharing, comments)
- [ ] Push notifications via Telegram
- [ ] Multi-language support
- [ ] Dark/light theme toggle
- [ ] Advanced charting



## Support

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For issues or questions:

- Check the documentation
- Review console logs
- Test with `/help` command
- Verify bot setup with `/api/telegram/bot-setup`

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**Bot Token:** `7683320014:AAH6Ri-KczlVWXXBe1ynz_LZT0kQjtZIUxw`

**Mini App URL:** `https://defidashtracker.com/telegram-mini`

**Webhook URL:** `https://defidashtracker.com/api/telegram/webhook`