reMarkable Pro Calendar PDF Exporter

A comprehensive solution for generating weekly calendar PDFs optimized for the reMarkable Pro device, addressing all the issues identified in your original PDF export.

Features

Optimized for reMarkable Pro
- Landscape weekly overview: 2160x1620 pixels
- Portrait daily views: 1620x2160 pixels
- Perfect fit for 11.8" display with 229 PPI

Proper Time Format
- Military time format (07:00-22:00)
- 30-minute intervals throughout the day
- Covers full business hours from 7 AM to 10 PM

Complete 8-Page Layout
- Page 1: Landscape weekly overview
- Pages 2-8: Portrait daily views (Monday-Sunday)

Bidirectional Hyperlinks
- Click day names in weekly view to jump to daily pages
- "Back to Weekly" links on each daily page
- Seamless navigation between views

Event Integration
- Event blocks proportional to duration
- Visual representation in both weekly and daily views
- Support for titles, times, and descriptions

E-ink Display Optimized
- High contrast formatting
- Clean, readable typography
- Optimized for reMarkable's e-ink technology

Quick Start

Option 1: Standalone Python Script

1. Copy `simple_calendar_generator.py` to your local machine
2. Install required dependencies: `bash pip install reportlab`
3. Run the script: `bash python simple_calendar_generator.py`

Option 2: Web Application (Recommended for Replit)

1. Copy the entire `calendar-pdf-exporter` folder to Replit
2. Install dependencies: `bash pip install flask flask-cors reportlab`
3. Run the application: `bash python src/main.py`
4. Access the web interface at `http://localhost:5000`

Replit Setup Instructions

Step 1: Create New Replit Project

1. Go to Replit.com and create a new Python project
2. Name it "remarkable-calendar-exporter"

Step 2: Upload Files

Copy these files to your Replit project:

Main Application Files:
- `src/main.py` - Flask application entry point
- `src/routes/calendar.py` - PDF generation API endpoint
- `src/generate_calendar.py` - Core PDF generation logic
- `src/static/index.html` - Web interface
- `requirements.txt` - Python dependencies

Alternative Standalone Script:
- `simple_calendar_generator.py` - Standalone version

Step 3: Install Dependencies

In Replit shell, run:

```
pip install flask flask-cors reportlab
```

Step 4: Configure Replit

Create a `.replit` file:

```
run = "python src/main.py"
modules = ["python-3.11"]

[nix]
channel = "stable-22_11"

[deployment]
run = ["sh", "-c", "python src/main.py"]
```

Step 5: Run the Application

Click "Run" in Replit. The web interface will be available at your Replit URL.

File Structure

```
calendar-pdf-exporter/
├──── src/
│    ├──── main.py          # Flask app entry point
│    ├──── generate_calendar.py   # PDF generation logic
│    ├──── routes/
│    │    └──── calendar.py      # API endpoints
│    ├──── static/
│    │    └──── index.html      # Web interface
│    └──── models/
│         └──── user.py        # Database models (optional)
├──── requirements.txt       # Dependencies
├──── simple_calendar_generator.py # Standalone script
└──── README.md             # This file
```

Usage

Web Interface

1. Set the week start date (defaults to current Monday)
2. Add events with:
3. Event title
4. Date
5. Start and end times

6. Optional description
7. Click "Generate PDF for reMarkable Pro"
8. Download the optimized PDF

Standalone Script

Modify the `events` array in `simple_calendar_generator.py` :

```
events = [
  {
    "title": "Your Event",
    "date": "2025-09-08",
    "start_time": "09:00",
    "end_time": "10:30",
    "description": "Event description"
  }
]
```

Key Improvements Over Original

Fixed Issues:

1. **Time Range**: Now covers 07:00-22:00 (was 09:00-17:00)
2. **Time Format**: Military time throughout
3. **Page Orientation**: Correct landscape/portrait layout
4. **Hyperlinks**: Bidirectional navigation between pages
5. **Event Blocks**: Proportional to duration
6. **reMarkable Optimization**: Perfect dimensions and DPI

Enhanced Features:

1. **Visual Event Representation**: Color-coded blocks
2. **Professional Typography**: Clean, readable fonts
3. **Grid Layout**: Proper alignment and spacing
4. **Navigation**: Intuitive page linking
5. **Responsive Design**: Works on desktop and mobile

Technical Specifications

- **Weekly Page**: 2160x1620 pixels (landscape)
- **Daily Pages**: 1620x2160 pixels (portrait)
- **DPI**: 229 PPI (reMarkable Pro native)

- **Time Slots**: 31 half-hour intervals (07:00-22:00)
- **Font**: Helvetica family for optimal e-ink rendering
- **Colors**: High contrast for e-ink display

Dependencies

```
 flask==3.1.1
flask-cors==6.0.0
reportlab==4.4.3
pillow==11.3.0
```

Troubleshooting

Common Issues:

1. **Import Error**: Ensure all dependencies are installed
2. **Date Format**: Use YYYY-MM-DD format for dates
3. **Time Format**: Use HH:MM format (24-hour)
4. **PDF Not Generating**: Check file permissions

Replit-Specific:

1. Make sure Python 3.11 is selected
2. Install dependencies in the Shell tab
3. Use the provided `.replit` configuration

Support

This solution addresses all the requirements from your original request:
- 8 pages total (1 weekly + 7 daily)
- Landscape weekly view
- Portrait daily views
- Military time format
- 07:00-22:00 time range
- 30-minute intervals
- Bidirectional hyperlinks
- reMarkable Pro optimization

The code is complete and ready for use in Replit or as a standalone application.