Project Kage - Scheduling Features

19. Time-blocking Calendar

A visual scheduling system that allocates specific time periods for different activities:

- **Block Creation**: Easily create and adjust time blocks for habits, tasks, and events
- **Drag-and-Drop Interface**: Intuitively move and resize blocks within the calendar
- **Color Coding**: Visual differentiation of block types (habits, deep work, rest, etc.)
- **Recurring Blocks**: Set regular patterns for repeating time commitments
- **Block Templates**: Save and reuse common time block configurations
- **Gap Analysis**: Identify unallocated time or scheduling conflicts
- **Duration Suggestions**: AI-recommended time allocations based on activity type
- **Buffer Time**: Automatic inclusion of transition periods between blocks
- **Priority Visualization**: Visual indicators of high-priority blocks
- **Day Templates**: Create ideal day patterns that can be applied to any date
- **Week Overview**: See entire week at once to balance activities
- **Zoom Levels**: Adjust view from hourly detail to monthly overview

20. Schedule Optimization Recommendations

Intelligent suggestions to improve schedule effectiveness and well-being:

- **Energy Matching**: Suggestions to align high-focus tasks with peak energy periods
- **Balance Analysis**: Recommendations to improve work/rest/personal time distribution
- **Conflict Resolution**: Smart suggestions when scheduling conflicts arise
- **Pattern Recognition**: Identification of successful scheduling patterns
- **Overcommitment Alerts**: Warnings when schedule becomes unrealistically packed
- **Context Grouping**: Suggestions to batch similar activities to reduce switching costs
- **Buffer Recommendations**: Dynamic suggestions for appropriate transition times
- **Rest Integration**: Ensures adequate breaks and downtime are scheduled
- **Focus Block Protection**: Strategies to preserve deep work periods
- **Schedule Simplification**: Suggestions to reduce complexity when needed
- **Adaptation Proposals**: Adjustments based on actual vs. planned completion
- **Travel Time Inclusion**: Accounts for realistic movement between locations

21. Daily Routine View

Focused display of the day's scheduled activities in an easily consumable format:

- **Timeline Display**: Chronological view of the day's commitments
- **Status Tracking**: Visual indicators of completed, in-progress, and upcoming items
- **Quick Edit Tools**: Easy adjustments to the day's schedule
- **Morning/Evening Planning**: Specialized views for start and end of day
- **Progress Bar**: Visual representation of day completion
- **Next Up Preview**: Prominent display of the next scheduled activity
- **Time Remaining Indicators**: Countdown to upcoming scheduled items
- **Flexible Formats**: List, timeline, or block visualization options
- **Context Information**: Relevant details for each scheduled item
- **Notification Integration**: Alert preferences for each routine item
- **Daily Summary**: End-of-day review of completions and adjustments
- **Tomorrow Preview**: Next day planning and preparation

22. Intelligent Habit Scheduling

Smart system that optimizes when habits are scheduled based on various factors:

- **Success Pattern Analysis**: Schedules habits at times when they've historically been completed
- **Energy Level Consideration**: Matches habits to appropriate energy states
- **Constraint Recognition**: Works around fixed commitments like work hours
- **Habit Stacking**: Groups complementary habits together for efficiency
- **Adaptive Timing**: Adjusts suggested times based on completion history
- **Interval Optimization**: Finds ideal spacing for recurring habits
- **Context Awareness**: Considers location, preceding activities, and available tools
- **Recovery Periods**: Ensures adequate rest between demanding activities
- **User Preference Learning**: Adapts to demonstrated schedule preferences
- **Preparation Time Inclusion**: Accounts for setup and preparation needs
- **Weather Adaptation**: Adjusts outdoor activity scheduling based on forecasts
- **Schedule Density Management**: Prevents overwhelming clustering of habits

23. Calendar Integration

Seamless connection with external calendar systems for unified scheduling:

- **Two-way Sync**: Bi-directional synchronization with Google, Apple, and Outlook calendars
- **Selective Import**: Choose which external calendars and events to include

- **Conflict Management**: Intelligent handling of overlapping events

- **New Event Creation**: Add events that sync back to original calendar

- **Real-time Updates**: Immediate reflection of changes from either system

- **Multiple Calendar Support**: Connect and manage several external calendars

- **Calendar-specific Colors**: Maintain visual distinction between different sources

- **Unified View Option**: See all calendars in a single integrated display

- **Filtered Views**: Temporarily show or hide specific calendars

- **Meeting Integration**: Special handling of video conference links and details

- **Travel Time Recognition**: Intelligent interpretation of location data

- **Free/Busy Indication**: Respect and display availability settings

24. Notification and Reminder System

Comprehensive alert system designed to support habit formation without becoming intrusive:

- **Multi-channel Alerts**: Notifications via push, email, or SMS based on preference

- **Intelligent Timing**: Contextually aware notifications sent at optimal moments

- **Reminder Customization**: Personalized message content and delivery style

- **Escalation Options**: Progressive reminder intensity for high-priority items

- **Snooze Functionality**: Temporarily delay reminders when needed

- **Location-based Triggers**: Notifications based on arriving at or leaving locations

- **Batch Control**: Group notification settings to prevent alert fatigue

- **Quiet Hours**: Automatically suppress non-critical reminders during specified periods

- **Motivational Variety**: Rotating message styles to prevent habituation

- **Pre-notifications**: Early warnings for important upcoming habits or events

- **Completion Acknowledgment**: Positive feedback messages after habit completion

- **Missed Item Follow-up**: Constructive reminders for overlooked habits