

Child Task and Chore App Feature Summary

Designed for children aged 5–13, with a focus on autism-friendly features

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August 19, 2025

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1 Introduction

This document outlines the features and functionalities of a web-based Child Task and Chore App, designed to support children aged 5–13, particularly those with autism, in managing tasks and routines. Built using HTML, CSS, Vanilla JavaScript, PHP, and MySQL, the app provides a user-friendly, accessible platform for parents and children. The app includes a free version with basic features and optional ads, with advanced features available through Monthly, 6-Month, and Annual subscription tiers. Features recommended for paid tiers are marked with an asterisk (*) and summarized in Section 7.

2 User Authentication and Account Management

- Secure registration and login for parents (primary users) and children (secondary users) using PHP and MySQL.
- Parents can create and manage multiple child profiles (avatars, ages, preferences).
- Role-based access: Parents have admin privileges (task creation, approval); children have view/complete/redeem access.
- Password recovery via email (PHP mailer).
- Session management for persistent logins (PHP sessions).

3 Dashboards

- **Parent Dashboard:** Overview of all children's progress, task/goal/reward creation links, summary charts (points earned, goals met) using CSS/JS visualizations.
- **Child Dashboard:** Kid-friendly interface with colorful icons, progress bars, large buttons, and minimal text, showing tasks, points, and rewards.

4 Task and Chore Management

4.1 General Task Features

- Parents create/edit/delete tasks with title, description (text/image support), due date/time, point value, recurrence (daily, weekly) via PHP forms.
- Task categorization (hygiene, homework, household) with icons/emojis.
- Children view tasks in list/calendar view, mark complete (optional photo proof upload, stored in MySQL).
- Parent approval workflow: Tasks require verification before points awarded (PHP/MySQL).
- Search/filter tasks by date/status.
- *Task Start Visualization:* Background image/graphic reflecting task (e.g., toothbrush for "Brush Teeth") set via CSS (parent-uploaded, stored in MySQL).*
- *Audio Option:* Toggle for task-specific audio (e.g., instructions, sound effects) via HTML5 Audio API, parent-uploaded (MySQL).*
- Pause/resume tasks with JS timer state persistence (localStorage/AJAX to MySQL).

- Completion buttons: "Finish Task" for standalone; "Start Next Task" or "Finish Routine" for routines, dynamically set via JS.
- *Celebration Feedback*: Optional animation/graphic pop-up (CSS/JS, e.g., confetti) with encouragement text (e.g., "Great Job!") on completion, toggleable.*
- Timeout Feedback: Pop-up (CSS modal) on time expiry: "Time's up! Try to hurry and finish up [task name]" with continue option; tracks overrun time (JS/MySQL).

4.2 Flexible Chore Timing Options

- Chores offer three timing modes (set via PHP form dropdown):
 - Timer: Enforced time limit (e.g., 5min) with countdown (numeric/bar/circle per settings), timeout pop-up, and overrun tracking.
 - Suggested Time: Recommended time (e.g., 10min) shown as guideline, no timeout, full points on completion.
 - No Time Limit: Due by end of day (11:59 PM), marked with "Due Today" badge, no timer.
- JS tracks completion time for all modes; MySQL logs for parent review.
- Parent dashboard shows timing mode performance; A.I. insights (paid) suggest optimal modes.*

5 Routine Management

- Parents create/edit/delete routines (e.g., "Morning Routine") with overall timeframe (e.g., 5:30am–6:40am) and grouped tasks (MySQL storage).
- Tasks in routines have individual time limits (e.g., 3min for "Brush Teeth"); JS/PHP validates total task times don't exceed routine timeframe.
- Sequential task ordering with optional dependencies (e.g., "Eat Breakfast" after "Get Dressed").
- Child interface: Collapsible/card view with "Start Routine" button; JS timers for routine and tasks (visual/numeric per settings).
- Completion: Bonus points for routine completion within timeframe (configurable).
- *Adaptive Time Warnings*: Toggleable warnings if remaining routine time < sum of task times; sub-timer shows adjusted time (JS/CSS).*
- *Sub-Timer Labels*: Selectable labels for sub-timer (global settings only, not per routine):
 - "Hurry Goal: Finish in [time] to end routine on time!"
 - "Adjusted Time: [time] left due to extra on [previous task]."
 - "Routine Target: Complete by [time] (buffer low)."
 - "Quick Finish: [time] to stay on schedule after [task]."
 - "New Limit: [time] because of overrun on [task name]."
 - "Random Daily Label" (picks one daily, persists for all routines that day, MySQL/JS).*
- Overtime Tracking: JS tracks overrun time post-timeout; logs to MySQL for parent analytics.

6 Goal Setting

- Parents set short/long-term goals (e.g., "Complete 5 tasks this week") linked to rewards, with progress trackers (JS/CSS progress bars).*
- Goal types: Individual or family-wide.
- Visual trackers: Star charts/badges for children (CSS/JS, minimal animation for autism-friendly design).*

7 Rewards System

- Parents create reward catalog (e.g., screen time, toys) with point costs, descriptions, images (MySQL/PHP).
- Children earn points on task approval, browse/redeem rewards (JS interface).
- Redemption: Child requests, parent approves, points deducted (MySQL).
- Reward history log for tracking.
- *Tiered Rewards*: Unlock higher-value items after milestones (e.g., 100 points).*

8 Progress Tracking and Visualization

- Real-time point tracking with progress bars, pie charts, or gamified elements (JS/CSS, minimal animation).
- Calendar/timeline view for tasks, due dates, goal progress.
- *Parent Reports*: Weekly/monthly summaries of tasks, points, trends (e.g., bottlenecks); visualized with charts (JS/CSS).*
- Child Stats: Simple animations (e.g., badge collection) on completion, toggleable for sensory needs.
- *Overtime Analytics*: Charts showing task overruns/underruns (e.g., average overrun on specific tasks) for parents (MySQL/JS).*

9 Notifications and Reminders

- In-app alerts for task/goal deadlines (JS pop-ups/badges).
- Email notifications for parents (PHP mailer, e.g., task completion) and gentle child reminders.
- Customizable reminder frequencies (MySQL storage).

10 Timer Customization

- Global toggle: Numeric timer (digits, e.g., "2:45") or Visual timer (Bar: CSS width animation; Circle: SVG stroke-dasharray).*
- Per-task/routine override: Use global or custom timer (numeric/visual, bar/circle if visual) via PHP forms.*
- Accessibility: ARIA-live for screen readers, high-contrast colors, large fonts, toggleable static colors for sensory needs.

11 Customization and Accessibility

- Themes: Light/dark mode, high-contrast, font size adjustments (CSS/JS).*
- *Visual Customization*: Upload custom icons/avatars/backgrounds (MySQL/PHP).*
- Accessibility: ARIA labels, keyboard navigation, alt text, simple language.
- Age-appropriate UI: Larger elements for ages 5–8, detailed views for 9–13.

12 Data Management and Security

- MySQL tables for users, tasks, routines, rewards, points, logs.
- *Data Export*: Parents download progress as CSV (PHP).*
- Security: Input validation (PHP), hashed passwords, HTTPS.
- Privacy: Data deletion and visibility controls.

13 Additional Utilities

- Help section with tutorials (text/images, HTML/PHP).
- Feedback form for suggestions (PHP/MySQL).
- *Offline Fallback*: Limited task viewing via localStorage, sync on reconnect (JS).*

14 A.I.-Powered Insights and Feedback

- *Parent Dashboard A.I.*: Analyzes task/routine data (MySQL) via external A.I. API (e.g., xAI Grok) to provide insights in a dedicated dashboard section (HTML/CSS/JS):*
 - Performance Analysis: Patterns in completion (e.g., "5min overrun on 'Brush Teeth'").
 - Customized Suggestions: Actionable recommendations (e.g., shorten time limits, sensory adjustments).
 - Task/Chore Suggestions: New tasks based on age/performance (e.g., "Pack School Bag").
 - Time Limit Suggestions: Adjust based on trends (e.g., extend "Eat Breakfast" to 15min).
 - Focus Techniques: Autism-friendly strategies (e.g., static visual timers).
 - Progress-Based Next Steps: Goal/routine suggestions (e.g., increase goal to 10 tasks).
- *Parent Notes*: Input field for task/routine reviews (PHP/MySQL); A.I. processes notes for refined suggestions.*
- *Alert Feedback*: A.I. provides feedback on timeout/non-completion alerts (e.g., "Try visual reminder for 'Brush Teeth'").*
- *Child-Side A.I.*: Limited encouraging messages (e.g., "Awesome job! Beat your record tomorrow!") and gentle guidance on timeouts, toggleable (JS/PHP).*

15 Monetization Strategy

- **Free Basic Version:** Core features (authentication, basic task/routine creation, child dashboard, notifications, flexible chore timing options) with optional banner ads (JS ad network, toggleable in settings).
- **Subscription Tiers** (Monthly, 6-Month, Annual): Unlock advanced features marked with (*) above, including:
 - Task Start Visualization (background images).
 - Audio Options for tasks.
 - Celebration Feedback (animations/text).
 - Adaptive Time Warnings and Sub-Timer Labels (including Random Daily Label).
 - Goal Setting (all features).
 - Tiered Rewards.
 - Parent Reports and Overtime Analytics.
 - Timer Customization (visual bar/circle options).
 - Visual Customization (custom icons/avatars/backgrounds).
 - Data Export (CSV).
 - Offline Fallback.
 - A.I.-Powered Insights and Feedback (all components).
- Pricing details available at <https://x.ai/grok> (not specified here).

16 Suggested App Names

- TaskTango
- ChoreBuddy
- GrowEasy
- RoutineRiser
- StarSteps
- QuestKids
- TimeTykes