SyncIncorp Crèche Management Mobile App – UX/UI Design Document(Option 1)

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1. Welcome Screen

Purpose: Provide a warm and accessible entry point to all users.

UI Elements:
- App logo at the top center
- Tagline: 'Where every little step counts!'
- Buttons: Login (Primary), Register (For new parents/staff/admin)
- Optional: "Learn More" section
- Background: Soft pastel colors, abstract child-friendly design

Design Rationale:
- Emotionally positive colors help increase trust and reduce cognitive load (Norman, 2004)
- CTA buttons follow Fitts' Law (1954), making them large, tappable, and intuitive.

2. Parent Dashboard

Purpose: Centralized hub for parents to view their child's daily life.

UI Elements:
- Child's profile card (photo, age, classroom, teacher)
- Attendance status
- Preview strip of recent media
- Mini-calendar with events
- Bottom nav bar: Attendance | Media | Messages | Events | Meals

Design Rationale:
- Dashboard uses Gestalt principles: grouping similar info (Lidwell et al., 2010)
- Quick-scan visuals support busy parents.

3. Attendance Tracking Screen

Purpose: Allow real-time visibility and recording of child attendance.

UI Elements:
- Real-time check-in/out toggle
- Calendar view
- Color-coded status indicators
- Notifications for check-in/out

Design Rationale:
- Real-time data enhances transparency and builds parent trust (Nielsen, 1994).

4. Lunch Ordering System

Purpose: Simplify and personalize daily meal planning for children.

UI Elements:
- Weekly menu in grid format
- Meal thumbnails with tags
- Order buttons
- Payment summary

Admin Features:
- Add/Edit meals, ingredients, allergens
- Nutrition label generator

Design Rationale:
- Dietary customization promotes inclusion (CDC, 2020).

5. Media Sharing Screen

Purpose: Share daily classroom memories with families.

UI Elements:
- Date-based gallery
- Filters: Class, Event, Date
- Consent form pop-up
- Caption + download options

Design Rationale:
- Emotional engagement increases retention (Norman, 2004)
- Consent respects GDPR/POPIA.

6. Messaging & Notifications

Purpose: Facilitate communication between parents, staff, and administrators.

UI Elements:
- Inbox-style interface
- Message tags
- Two-way chat
- Push alerts and voice note support

Design Rationale:
- Notification design uses affordance theory (Gibson, 1977).

7. Events & Calendar Integration

Purpose: Keep parents informed of key dates and deadlines.

UI Elements:
- Scrollable event feed
- Calendar sync (Google Calendar API)
- RSVP buttons, reminder toggles

Design Rationale:
- Combines event feed with calendar per Shneiderman's Golden Rules (1992).

8. Payment Gateway

Purpose: Secure and transparent fee management.

UI Elements:
- View balances
- Payment history
- Payment options: Card, PayPal etc
- Installment tracker

Design Rationale:
- Transparency builds trust (UX Collective, 2022).

9. Weekly Lesson Plan Viewer

Purpose: Keep parents involved in their child's curriculum.

UI Elements:
- Accordion-style weekly planner
- Fields: Theme, Activity Type, Objective, Preview
- "Ask your child about..." tip

Design Rationale:
- Curriculum transparency builds academic alignment (Hattie, 2012).

10. Term Report Download

Purpose: Digital delivery of academic and behavioral performance.

UI Elements:
- Dropdown: Choose Term
- Child selector
- Summary fields: Academic, Emotional, Teacher Comments
- Buttons: Download, Print, Request Meeting

Design Rationale:
- Progress visualization supports data storytelling.

11. Daily Child Update Screen

Purpose: Provide real-time micro-journal of child's day.

UI Elements:
- Emoji mood tracker
- Activity log
- Behavior notes
- Teacher voice note
- Parent emoji reaction bar

Design Rationale:
- Mirrors social feed UX to improve engagement.

12. Technology Stack

Frontend: Flutter or React Native

Backend: Node.js or Firebase Functions

Database: Firestore / MongoDB

Storage: Firebase Storage / AWS S3

Payments: Stripe / PayPal

Calendar: Google Calendar API

Auth: Firebase Auth / OAuth 2.0

Push: Firebase Cloud Messaging (FCM)

References

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