Feature Specification: Bosplan Messenger

1. **Overview:** Bosplan Messenger is a secure messaging and task management app integrated within the Bosplan.ai platform. It enables users to communicate, share files, and manage tasks in real time via both mobile (Android/iOS) and web dashboard interfaces. All communication and task activities within Bosplan Messenger synchronise automatically with the user's Bosplan.ai dashboard account.

2. Objectives
- Provide a communication app for Bosplan.ai users.
- Enable task allocation and tracking between managers and team members.
- Improve team collaboration and efficiency via task and message notifications, live syncing with the bosplan dashboard, and visibility of task activity.

3. Target Platforms
- Android: Google Play Store
- iOS: Apple App Store

Both platforms must ensure data consistency and synchronization with the web platform.

4. Core Functional Features

4.0 Home Screen
Purpose: Landing page when messenger app is opened
Functional Requirements:
- Search bar to search for specific message, user, or group chat
- Active users display at the top
- List view of most recent conversations
- Ability to start a new chat from home screen.

4.0 Topbar Menu
Purpose: Menu to access tasks, files, and saved messages
Functional Requirements:
- Task icon to navigate to task list page
- File icon to naviagte to shared file page
- Saved message icon to navigate to the user's saved messages

4.1 Direct Messaging and Group Messaging
Purpose: One-to-one or group communication.
Functional Requirements:
- Search bar to search for specific messages or files
- Read receipts ("Delivered", "Read").
- Message input supports: text, file and video attachments, and voice notes
- Open and view sent files without leaving the app.
- Ability to save and forward files.
- Ability to save and forward messages by right clicking the message.
- Offline message caching with auto-sync when reconnected.
- Create group chats with custom names and member list.
- Group notifications for mentions (@user).

4.2 Task Request & Allocation Workflow
Purpose: Enable operations and strategic manager Bosplan users to allocate and track team tasks within the messenger app.

Workflow Logic:
1. Manager initiates task allocation request to a product management user/team member (option to send task now or schedule send).
2. Team member receives a notification with the option Accept / Decline the task.
3. If Declined → prompt for a mandatory text reason field.(The user must input why they cannot accept the task which the sender/manager can then review) (See 4.2 Product Team Tasks Status and Decline Task)
4. If Accepted → The task moves to their task list and syncs with the Bosplan dashboard. (See 4.2 Product Team Member View of Tasks)
5. The manager who sent the task request receives a notification in their task list that the team member has accepted or declined their task. (See 4.2 Operations/Strategic Manager View of Tasks)

Task Fields (same as Bosplan dashboard):
- Project Association
- Task Title & Description
- Priority: High / Medium / Low
- Due Date
- Attachments
- Assigned To

Data Sync Logic:
- Tasks created or updated in Messenger auto-sync via Bosplan.ai
- Updates made in Dashboard reflect back in Messenger in real time

4.3 Product Management User Task List
Purpose: Central view for managing personal tasks within Messenger.

Functional Requirements:
- Search bar to search for tasks.
- Task list: Displays the user's existing tasks
- Task Request View: Displays pending task requests awaiting the user's acceptance.
- Ability to view expanded task details when clicking on specific task
- Ability to update task status

4.3 Operational Management User Task List
Purpose: Central view for managing personal tasks, setting tasks, and viewing team activity notifications..

Functional Requirements:
- Ability to move between operational and strategic boards
- Search bar to search for tasks.
- Ability to send a task request.
- Task list that displays the user's existing tasks (with the ability to switch between weekly, monthly, quarterly and yearly tasks) linked to the Bosplan dashboard.
- Real-time notifications for:
  - Team task status updates
  - When a team member accepts or declines a task.
  - Ability to see why a team member declines a task
- Ability to view expanded task details when clicking on specific task
- Ability to update task status

4.3 Strategic Management User Task List (same as Operational Management user task list)
Purpose: Central view for managing personal tasks, setting tasks, and viewing team activity notifications..

Functional Requirements:
- Ability to move between operational and strategic boards
- Search bar to search for tasks.
- Ability to send a task request.
- Task list that displays the user's existing tasks (with the ability to switch between weekly, monthly, quarterly and yearly tasks) linked to the Bosplan dashboard.
- Ability to switch between operations and strategic user's tasks via the drop down.
- Real-time notifications for:
  - Team task status updates
  - When a team member accepts or declines a task.
  - Ability to see why a team member declines a task
- Ability to view expanded task details when clicking on specific task
- Ability to update task status

4.4 File List and Saved Messages List
File List Purpose: Central view of all files shared with a user or the user has shared with another team member or group through the messenger app.
- Search bar to search for files
- File list displays in order of most recent to oldest

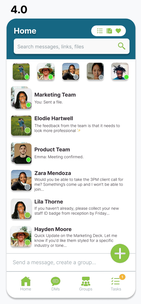
Saved Messages List Purpose: Central view of messages the user has saved
- Search bar to search for messages
- Message list displays in order of most recent to oldest

Other key requirements
5. Notifications & Alerts
Purpose: Ensure users remain informed about key communications and task events.
Functional Requirements:
- Push notification triggers for:
  - New Direct Message
  - New Group Message
  - New Task Allocation Request
  - Manager notification if a Task is Accepted / Declined
  - Manager notification Task Status Change

6. Security & Compliance
- End-to-End Encryption for all message and file transfers.
- OAuth 2.0 + SSO integration with Bosplan.ai for authentication.
- Encrypted file storage
- GDPR and ISO 27001 compliance for user data protection.

7. Integrations
Primary Integration: Bosplan.ai Dashboard
Sync Logic:
- Messages: Synced with Bosplan.ai messenger
- Tasks and Task Attachments: Synced between Messenger and Dashboard

4.0



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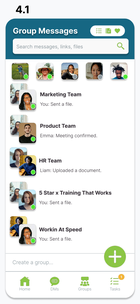

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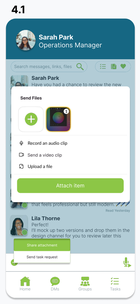

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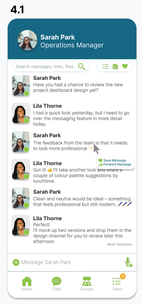

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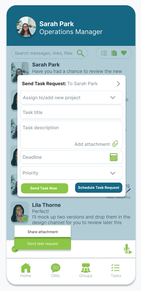

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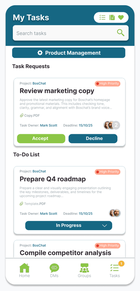
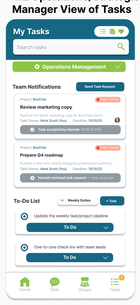
4.2 Product Team Tasks Status and Decline Task

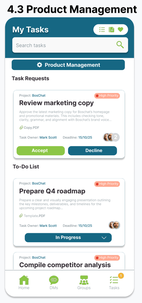
4.2 Product Team Member View of Tasks



4.2 Operations/Strategic Manager View of Tasks

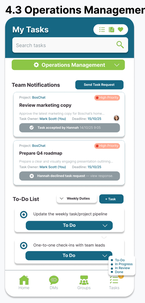


4.3 Product Management

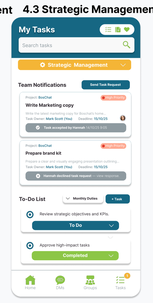


4.3 Expanded Task

4.3 Operations Management



4.3 Strategic Management



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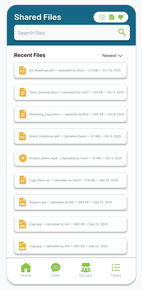

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