



Breakdown of the Models

1. **Post Model:**
- **user:** ForeignKey to the Django User model to associate a post with a specific user.
 - **content:** Text field to store the post content.
 - **created_at & updated_at:** Timestamps for when the post was created and last updated.
 - **likes_count & shares_count:** Caching the counts of likes and shares for efficient queries. These should be updated whenever an interaction occurs.
2. **Comment Model:**
- **user:** ForeignKey to the User model, representing the user who made the comment.
 - **post:** ForeignKey to the Post model, linking the comment to a specific post.
 - **content:** The actual content of the comment.
 - **created_at:** Timestamp for when the comment was made.
3. **Interaction Model:**
- **user:** ForeignKey to the User model for the user interacting with the post.
 - **post:** ForeignKey to the Post model to which the interaction belongs.
 - **interaction_type:** A CharField with choices to store whether the interaction is a 'like' or 'share'.
 - **created_at:** Timestamp of the interaction.
 - **unique_together:** Ensures a user can only interact once (either like or share) with the same post.