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Friendship System Flow Diagram with Descriptions


User A --------------->
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    | Friendship Model               |
    |                                |
    | # Represents a friend          |
    | # relationship between two users|
    |                                |
    | - from_user (FK to User)       |  # Sender of the request
    | - to_user   (FK to User)       |  # Receiver of the request
    | - is_accepted (Boolean)        |  # True if accepted
    | - created_at (DateTime)        |
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    | FriendshipSerializer           |
    |                                |
    | # Controls what fields are     |
    | # exposed via the API          |
    |                                |
    | - Serializes all fields        |
    | - Adds from_user_name          |  # Readable sender name
    | - Adds to_user_name            |  # Readable receiver name
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    | FriendshipViewset (DRF ViewSet)               |
    |                                               |
    | # Handles all friendship-related logic:       |
    | - create(): send a friend request            |
    | - get_queryset(): all user friendships        |
    | - friends(): only accepted friendships        |
    | - pending(): pending sent & received          |
    | - accept(pk): accept a pending request         |
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    | DRF Router (urls.py)                          |
    |                                               |
    | # Registers the ViewSet so endpoints work     |
    | - router.register('friends', ...)             |
    | - Auto-generates routes:                      |
    |   /api/friends/            -> list & create   |
    |   /api/friends/friends/    -> accepted         |
    |   /api/friends/pending/    -> pending requests |
    |   /api/friends/{id}/accept/ -> accept request  |
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