const referralProgram = {

  // Mapping of user referral links

  referralLinks: {},

  // Mapping of user referrals

  referrals: {},

  // Function to generate a unique referral link for a user

  generateReferralLink: (user) => {

    const referralLink = `https:

    referralProgram.referralLinks[[user.id](http://user.id/" \t "_blank)] = referralLink;

    return referralLink;

  },

  trackReferral: (referrerId, referredUserId) => {

    if (!referralProgram.referrals[referrerId]) {

      referralProgram.referrals[referrerId] = [];

    }

    referralProgram.referrals[referrerId].push(referredUserId);

  },

  rewardReferrer: async (referrerId, depositAmount) => {

    const rewardAmount = depositAmount \* 0.1;

    console.log(`//[example.com/referral/${user.id}`](http://example.com/referral/$%7Buser.id%7D);

    referralProgram.referralLinks[[user.id](http://user.id/" \t "_blank)] = referralLink;

    return referralLink;

  },

  // Function to track referrals

  trackReferral: (referrerId, referredUserId) => {

    if (!referralProgram.referrals[referrerId]) {

      referralProgram.referrals[referrerId] = [];

    }

    referralProgram.referrals[referrerId].push(referredUserId);

  },

  // Function to reward referrer upon deposit of referred user

  rewardReferrer: async (referrerId, depositAmount) => {

    const rewardAmount = depositAmount \* 0.1;

    // Update referrer's balance or reward them in some way

    // For example:

    // await updateUserBalance(referrerId, rewardAmount);

    console.log(`Referrer ${referrerId} rewarded ${rewardAmount}`);

  },

  // Function to handle deposit of referred user

  handleDeposit: async (userId, depositAmount, referralCode) => {

    if (referralCode) {

      const referrerId = await getUserIdFromReferralCode(referralCode);

      if (referrerId) {

        referralProgram.trackReferral(referrerId, userId);

        await referralProgram.rewardReferrer(referrerId, depositAmount);

      }

    }

  },

};

// Function to get user ID from referral code

const getUserIdFromReferralCode = async (referralCode) => {

  // Implement logic to get user ID from referral code

  // For example:

  // const userId = await db.getUserIdFromReferralCode(referralCode);

  // return userId;

};

// Function to update user balance

const updateUserBalance = async (userId, amount) => {

  // Implement logic to update user balance

  // For example:

  // await db.updateUserBalance(userId, amount);

};