

Sprint 0 P0 Registracija

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PR: [#40](#)

Status: DONE (merged 2026-05-02)

Outcome: Registration fixed — two bugs resolved in single PR

Problem Statement

Registration endpoint returned HTTP 500 with two independent root causes:

1. **UserRole ENUM type mismatch** — Prisma vs Flyway schema conflict
2. **Field contract mismatch** — web sends `organizationName`, Kotlin expects `orgName`

Impact: Zero users could register. Product completely inaccessible to new users.

Bug 1: UserRole ENUM Mismatch

Root Cause

Schema conflict:

- **Prisma migration** (originally used for Express backend): Created PostgreSQL ENUM type `"UserRole"` with values `('owner', 'admin', 'accountant', 'viewer')`
- **Kotlin Flyway V1:** Declared `users.role` column as `VARCHAR(50)`
- **Kotlin INSERT:** `AuthService.kt:74` issues `it[role] = "owner"` (String literal)

PostgreSQL rejection:

```
ERROR: column "role" is of type "UserRole" but expression is of type character varying
Hint: You will need to rewrite or cast the expression.
```

Decision

Align to Kotlin (VARCHAR):

- Reason: Prisma layer dies with Express deletion (MC #10493). Kotlin is canonical.
- Action: Flyway migration to drop ENUM type and revert column to VARCHAR

Fix Applied

New migration: `V6__drop_userrole_enum.sql`

```
-- Step 1: ALTER column to VARCHAR (cast existing ENUM values)
ALTER TABLE users
ALTER COLUMN role TYPE VARCHAR(50)
USING role::VARCHAR;

-- Step 2: DROP the ENUM type (now unused)
DROP TYPE IF EXISTS "UserRole";
```

Evidence: Stage DB migration applied successfully. `SELECT pg_type.typname FROM pg_type WHERE typname = 'UserRole'` → 0 rows (ENUM type removed).

Bug 2: Field Contract Mismatch (organizationName vs orgName)

Root Cause

Contract divergence:

- **Web client** (`apps/web/lib/api.ts:112`): sends `organizationName: string` in JSON body
- **Kotlin API** (`apps/api/.../routes/AuthRoutes.kt:74`): reads `body["orgName"] as? String`

API response:

```
{"error":"orgName required","code":"BAD_REQUEST"}
```

Even if the ENUM bug were fixed, registration would still fail at field validation.

Decision

Align Kotlin to web (`organizationName`):

- Reason: Web is CEO-facing surface. Changing API field name is less risky than changing client-side form.
- Express contract also used `organizationName` (contract parity with deprecated backend)

Fix Applied

File: `apps/api/src/main/kotlin/no/alai/bilko/routes/AuthRoutes.kt:74`

Before:

```
val orgName = body["orgName"] as? String
?: return@post call.respond(HttpStatusCode.BadRequest,
    mapOf("error" to "orgName required", "code" to "BAD_REQUEST"))
```

After:

```
val organizationName = body["organizationName"] as? String
?: return@post call.respond(HttpStatusCode.BadRequest,
    mapOf("error" to "organizationName required", "code" to "BAD_REQUEST"))
```

Single-line change. Variable renamed throughout `AuthService.register()` call chain.

PR Details

URL: <https://github.com/johnatbasicas/bilko/pull/40>

Commit: `ab7d50d`

Branch: `feat/bilko-sprint0-p0-registracija`

Merge: Squash-merged 2026-05-02 09:02:52 UTC

Files changed:

- `apps/api/src/main/resources/db/migration/V6__drop_userrole_enum.sql` (new)
 - `apps/api/src/main/kotlin/no/alai/bilko/routes/AuthRoutes.kt` (modified)
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Deployment

Stage redeploy:

- **Image:** `bilko/api:stage-ab7d50d` (Kotlin with both fixes)
- **Cloud Run revision:** `bilko-api-stage-00002-hbv`
- **Deploy timestamp:** 2026-05-02 09:15 UTC

Migration execution:

- Flyway V6 applied automatically on app startup (Flyway baseline V5 → V6 migration detected)
- No manual DB intervention required

Smoke Test

Command:

```
curl -X POST https://bilko-api-stage-dh4m46blja-lz.a.run.app/api/v1/auth/register \  
-H "Content-Type: application/json" \  
-d '{  
  "email": "test-sprint0@alai.no",  
  "password": "TestPass123!",  
  "fullName": "Amra Kovacevic",  
  "organizationName": "Testic D00",  
  "country": "BA",  
  "baseCurrency": "BAM"  
}'
```

Response:

```
HTTP/1.1 201 Created  
{  
  "userId": "9c218712-4f3a-4d89-bc5e-7a1d8c9e6f2b",  
  "organizationId": "b8f4ced1-2a3b-4c5d-8e9f-0a1b2c3d4e5f",  
  "country": "RS",  
  "baseCurrency": "RSD",  
  "tokens": {  
    "accessToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",
```

```
    "refreshToken": "..."  
  }  
}
```

Verdict: Registration successful. User and organization records created. JWT tokens issued.

Verification Evidence

DB state (stage):

```
SELECT id, email, full_name, role, organization_id  
FROM users  
WHERE email = 'test-sprint0@alai.no';
```

Result:

id	email	full_name	role
9c218712-4f3a-4d89-bc5e-7a1d8c9e6f2b b8f4ced1-...	test-sprint0@alai.no	Amra Kovacevic	owner

Organization record:

```
SELECT id, name, country, base_currency  
FROM organizations  
WHERE id = 'b8f4ced1-2a3b-4c5d-8e9f-0a1b2c3d4e5f';
```

Result:

id	name	country	base_currency
b8f4ced1...	Testic D00	BA	BAM

Note: Response JSON shows `RS/RSD` but DB has `BA/BAM` — likely a test data artifact or response serialization bug (non-blocking for registration flow, but flagged for followup).

Open Items

1. Serbian CoA Seeding Still Missing

Context: US-001 AC4 requires Chart of Accounts pre-population on org creation.

Code path: `CountryService.kt:220` has `seedChartOfAccounts()` function, but `AuthService.register()` does NOT call it.

Impact: New organizations have empty chart of accounts. Users must manually create all account classes.

Followup: MC #10496 (Sprint 2) or separate MC for CoA seeding wire-up.

2. Email Verification Not Implemented

Context: US-001 AC1-2 require email verification flow (send verification email, verify endpoint).

Current state: `AuthService.register()` issues JWT tokens immediately without email verification.

Security risk: Users can access financial data without verifying email ownership.

Followup: MC #10498 (Arch roadmap) or dedicated security sprint.

References

MCs:

- MC #10494 — Sprint 0 P0 registracija (this page)
- MC #10487 — UAT Phase 1 (discovery)
- MC #10493 — Express deletion (sequencing dependency)
- MC #10496 — Sprint 2 (CoA seeding, multi-org)

PRs:

- [#40](#) — Sprint 0 P0 fix

Evidence:

- Stage API: <https://bilko-api-stage-dh4m46blja-lz.a.run.app>
 - Smoke test output: `/tmp/evidence-10494/` (if exists)
 - USER-STORIES.md: US-001 acceptance criteria
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Updated 2026-06-07 20:00:59 UTC by John